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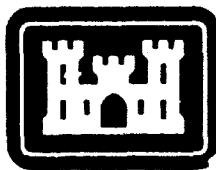
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WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1986

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PART 3
WATERWAYS AND HARBORS
GREAT LAKES



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WATERBORNE COMMERCE OF THE UNITED STATES

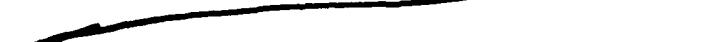
CALENDAR YEAR 1986



PART 3

WATERWAYS AND HARBORS GREAT LAKES

**COMPILED UNDER THE SUPERVISION OF
THE WATER RESOURCES SUPPORT CENTER
U.S. ARMY CORPS OF ENGINEERS
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INTRODUCTION

This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1986. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce moved on United States waters are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922:

Section 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section, shall for each and every offense, be liable to a fine of \$100 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the inland rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1986 but not reported to the Corps of Engineers until after 28 February 1987 will be included in the next year's, 1987, statistics rather than in this publication, while reports of movements completed in 1985 but reported to the Corps after 28 February 1986 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intransit merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense Controlled Cargo and Special Category Items."

The 1986 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1986 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

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Waterborne Commerce of the United States. 1986

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only, cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels—neither the carriage on the oceans nor the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," is taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals, and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling; however, the number of towboat trips are calculated from better than 70-percent of the total number of towboat moves reported and the number of barge trips are derived from better than 85-percent of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluding from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, these vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped—either tied to a dock or at anchor. The draft under way—while the vessel is moving—is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1986 in Bar Harbor, Lubec, Eastport and Portland Harbor. Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1986 of harbors and waterways in the area covered by this part of the statistics series.

SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

Pertaining to Ports

Imports and Exports. These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of the U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

Coastwise Receipts and Shipments. These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water, therefore, traffic confined to these areas in "internal" rather than "coastwise."

Lakewise Receipts and Shipments. These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

Internal Receipts and Shipments. These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems; marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important areas thereof; and movements between offshore installations and inland waterways.

Local. Movements of freight within the confines of a port whether the port has only one or several areas or channels, except car-ferry and general ferry are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

Intraterritory receipts and shipments. These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered a single unit.

Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

Upbound and Downbound. These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segment of one of these channels as described in the "Section included" for each channel.

Inbound and Outbound. Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

Through Traffic. Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.

COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

NOTE: The commodity descriptions used in the statistical tables in this publication are abbreviated to conserve printing space of the following commodities:

Code No.	Item Name	Code No.	Item Name
Group 01-Farm Products			
0101	Cotton, raw	2034	Vegetables and preparations, canned and otherwise prepared and preserved
0102	Barley and rye	2039	Fruits, in fruit and vegetable juices, dried and otherwise prepared or preserved
0103	Corn	2041	Wheat flour and semolina
0104	Oats	2042	Animal feeds
0105	Rice	2049	Grain mill products, not elsewhere classified
0106	Sorghum Grains	2061	Sugar
0107	Wheat	2062	Molasses
0111	Soybeans	2081	Alcoholic beverages
0112	Flaxseed	2091	Vegetable oils, all grades; margarine and shortening
0119	Oilsseeds, not elsewhere classified	2092	Animal oils and fats, not elsewhere classified, including marine
0121	Tobacco, leaf	2094	Groceries
0122	Hay and Fodder	2095	Ice
0129	Field crops, not elsewhere classified	2099	Miscellaneous food products
0131	Fresh fruits	Group 21-Tobacco Products	
0132	Bananas and plantains	2111	Tobacco manufactures
0133	Coffee, green and roasted (including instant)	Group 22-Basic Textiles	
0134	Cocoa beans	2211	Basic textile products, except textile fibers
0141	Fresh and frozen vegetables	2212	Textile fibers not elsewhere classified
0151	Live animals (livestock) except zoo animals, cats, dogs, etc.	Group 23-Apparel and Other Finished Textile Products Including Knit	
0161	Animals and animal products, not elsewhere classified	2311	Apparel and other finished textile products, including knit
0191	Miscellaneous farm products	Group 24-Lumber and Wood Products Except Furniture	
Group 08-Forest Products			
0841	Crude rubber and allied gums	2411	Logs
0861	Forest products, not elsewhere classified	2412	Rafted logs
Group 09-Fresh Fish and Other Marine Products			
0911	Fresh fish, except shellfish	2413	Fuel wood, charcoal, and wastes
0912	Shellfish, except prepared or preserved	2414	Timber, posts, poles, piling, and other wood in the rough
0913	Menhaden	2415	Pulpwood, log
0931	Marine shells, unmanufactured	2416	Wood chips, staves, moldings, and excelsior
Group 10-Metallic Ores			
1011	Iron ore and concentrates	2421	Lumber
1021	Copper ore and concentrates	2431	Veneer, plywood, and other worked wood
1051	Bauxite and other aluminum ores and concentrates	2491	Wood manufactures, not elsewhere classified
1061	Manganese ores and concentrates	Group 25-Furniture and Fixtures	
1091	Nonferrous metal ores and concentrates, not elsewhere classified	2511	Furniture and fixtures
Group 11-Coal			
1121	Coal and lignite	Group 26-Pulp, Paper and Allied Products	
Group 13-Crude Petroleum			
1311	Crude petroleum	2611	Pulp
Group 14-Nonmetallic Minerals, Except Fuels		2621	Standard newsprint paper
1411	Limestone flux and calcareous stone	2631	Paper and paperboard
1412	Building stone, unworked	2691	Pulp, paper and paperboard products, not elsewhere classified
1442	Sand, gravel and crushed rock	Group 27-Printed Matter	
1451	Clay, ceramic and refractory materials	2711	Printed matter
1471	Phosphate rock	Group 28-Chemicals and Allied Products	
1479	Natural fertilizer materials, not elsewhere classified	2810	Sodium hydroxide (caustic soda)
1491	Salt	2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene
1492	Sulphur, dry	2812	Dyes, organic pigment, dyeing and tanning materials
1493	Sulphur, liquid	2813	Alcohols
1496	Gypsum, crude and plasters	2816	Radioactive and associated materials, including wastes
1499	Nonmetallic minerals, except fuels, not elsewhere classified	2817	Benzene and toluene, crude and commercially pure
Group 19-Ordnance and Accessories		2818	Sulphuric acid
1911	Ordnance and accessories	2819	Basic chemicals and basic chemical products, not elsewhere classified
Group 20-Food and Kindred Products		2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates
2011	Meat, fresh, chilled, or frozen	2822	Synthetic rubber
2012	Meat and meat products prepared or preserved, including canned meat products	2823	Synthetic (man-made) fiber
2014	Tallow, animal fats and oils	2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)
2015	Animal by-products, not elsewhere classified	2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations
2021	Dairy products, except dried milk and cream	2851	Paints, varnishes, lacquers, enamels, and allied products
2022	Dried milk and cream	2861	Gum and wood chemicals
2031	Fish and fish products, including shellfish, prepared or preserved	2871	Nitrogenous chemical fertilizers, except mixtures
		2872	Potassic chemical fertilizers, except mixtures
		2873	Phosphatic chemical fertilizers, except mixtures

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Code No.	Item Name	Code No.	Item Name
Group 28-Chemicals and Allied Products			
2876	Insecticides, fungicides, pesticides, and disinfectants		
2879	Fertilizers and fertilizer materials, not elsewhere classified	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment
2891	Miscellaneous chemical products		
Group 29-Petroleum and Coal Products			
2911	Gasoline, including natural gasoline	3511	Machinery, except electrical
2912	Jet fuel		
2913	Kerosene	3611	Group 36-Electrical Machinery, Equipment and Supplies
2914	Distillate fuel oil		
2915	Residual fuel oil	3711	Electrical machinery equipment and supplies
2916	Lubricating oils and greases		
2917	Naphtha, mineral spirits, solvents, not elsewhere classified	3721	Group 37-Transportation Equipment
2918	Asphalt, tar, and pitches	3731	Motor vehicles, parts and equipment
2920	Coke, including petroleum coke	3732	Aircraft and parts
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids	3733	Ships and boats
2951	Asphalt building materials	3791	Miscellaneous transportation equipment
2991	Petroleum and coal products, not elsewhere classified		
Group 30-Rubber and Miscellaneous Plastic Products			
3011	Rubber and miscellaneous plastic products	3811	Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks
Group 31-Leather and Leather Products			
3111	Leather and leather products		
Group 32-Stone, Clay, Glass and Concrete Products			
3211	Glass and glass products	3911	Group 39-Miscellaneous Products of Manufacturing
3241	Building cement		
3251	Structural clay products, including refractories	4011	Miscellaneous products of manufacturing
3271	Lime	4012	Group 40-Waste and Scrap Materials
3281	Cut stone and stone products	4022	Iron and steel scrap
3291	Miscellaneous nonmetallic mineral products	4024	Nonferrous metal scrap
Group 33-Primary Metal Products			
3311	Pig iron	4026	Textile waste, scrap, and sweepings
3312	Slag	4029	Paper waste and scrap
3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents		Waste and scrap, not elsewhere classified
3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron		
3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling	Group 41-Special Items	
3316	Iron and steel plates and sheets	4111	Water
3317	Iron and steel pipe and tube	4112	Miscellaneous shipments not identifiable by commodity
3318	Ferroalloys	4113	LCL freight
3319	Primary iron and steel products, not elsewhere classified including castings in the rough	4118	Materials used in waterway improvement, Government materials
3321	Nonferrous metals primary smelter product, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum	4119	Empty containers
3322	Copper and copper alloys, whether or not refined, unworked	9999*	Department of Defense controlled cargo and special category items
3323	Lead and zinc including alloys, unworked		
3324	Aluminum and aluminum alloys, unworked		

*Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCI) for which commodity detail is not furnished to the Corps of Engineers.

Waterborne Commerce of the United States, 1986

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TABLE I - TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1986
(TWO DIVISIONS)

Waterborne Commerce of the United States, 1986

TABLE 2 - FREE-ON-BOARD TONS OF UNITED STATES TRAFFIC CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1986
(SHORT TONS)

AREA	AREA TOTALS	FOREIGN				DOMESTIC				LOCAL RECEIPTS AND SHIPMENTS
		OVERSEAS RECEIPTS AND SHIPMENTS	CANADIAN RECEIPTS AND SHIPMENTS	COASTWISE RECEIPTS AND SHIPMENTS	LAKEWIDE RECEIPTS AND SHIPMENTS	INTERNAL RECEIPTS AND SHIPMENTS				
LAKE SUPERIOR	50,782,757	2,942,087	-----	7,542,166	-----	40,155,987	-----	-----	-----	142,517
St. MARYS RIVER	51,332,677	52	2,942,087	247,637	6,749,610	1,165,152	39,487,935	-----	-----	-----
Lake Michigan (CLUDING THE PORT OF CHICAGO HARBOUR, NORTH BRANCH, SOUTH BRANCH, SANITARY STREAM, CAULFIELD CHANNEL, LAKE CALUMET AND CALUMET RIVER)	73,693,210	2,866,344	-----	4,521,072	-----	47,482,579	-----	16,234,246	-----	2,430,469
Lake Huron	46,936,622	27,178	5,408,043	9,411,977	9,540,408	20,482,604	9,161,223	-----	-----	1,989
St. Clair River, Including Upper Channel in Lake St. Clair	65,539,529	7,516	5,455,661	50,901	14,107,564	9,651,044	35,665,058	1,939	-----	-----
Detroit River	61,733,266	1,751,504	5,542,977	1,294,576	13,060,570	12,046,330	27,469,656	-----	-----	3,451
Lake Erie, Including Upper Niagara River	85,592,676	3,155,032	7,506,405	25,675,534	5,074,513	43,698,991	22,000	-----	-----	454,061
Welland Canal	29,228,465	-----	10,951,577	1,036,193	14,111,234	-----	127,361	-----	-----	-----
Lake Ontario, Including Lower Niagara River	26,905,640	27,253	10,951,577	6,879,418	6,155,065	16,869	112,462	65,166	-----	-----
St. Lawrence River, Below International Boundary Line and Lake Ontario	17,467,404	4,864	110,974,416	72,559	6,296,610	112,462	-----	-----	-----	-----
Net United States Traffic on the Great Lakes	137,316,051	-----	13,982,484	31,986,679	-----	37,354,054	-----	11,465,772	-----	3,039,663

*EXCLUDES TRAFFIC WHICH WOULD NOT TRANSESS THE GREAT LAKES.

Waterborne Commerce of the United States. 1986

XIII

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
COMPARATIVE STATEMENT OF TRAFFIC

YEAR	SHORT TONS	YEAR	SHORT TONS
1977	185,906,348	1982	127,388,710
1978	221,374,284	1983	130,217,894
1979	224,984,471	1984	162,799,230
1980	183,514,065	1985	148,187,122
1981	148,147,122	1986	137,918,051

FREIGHT TRAFFIC, 1986

(NET TRAFFIC IN TONS OF 2,000 POUNDS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		IMPORTS		EXPORTS		COASTWISE	LAKEWISE	INTERNAL	LOCAL
		CANADIAN	OVERSEAS	CANADIAN	OVERSEAS				
TOTAL, ALL COMMODITIES	157,918,051	9,597,544	4,244,940	25,288,144	6,738,734		87,388,050	1,665,772	3,030,863
2102 BARLEY AND RYE	380,072			140,114	230,958				
2123 C. R.----	965,944			628,573	302,353				
2124 CATS	24,074	24,074							
2107 CAVATI	3,346,207	121,758		317,385	2,131,181		757,814	10,464	
2111 CAVIAR	1,362,793			214,722	1,073,162			54,000	
2119 CAVIAR, NEC	272,620	1,543			271,077				
2129 FIELD CROPS, NEC	11,287		90	97		11,100			
2131 FRESH FRUITS	429			125			304		
2133 COFFEE	112			112					
2141 FRESH AND FROZEN VEGETABLES	36,171			34	803	26,792		5,582	
2161 ANIMALS AND PRODUCTS, NEC	391	58	317		16				
2191 MISCELLANEOUS FARM PRODUCTS	25			2			23		
2841 CRUDE RUBBER AND ALLIED SUBS	150	31	105		14				
2841 FOREST PRODUCTS, NEC	176		22	150					
2911 FRESH FISH, EXCEPT SHELLFISH	1,261			5	339		209		708
2931 MARINE SHELLS, UNMANUFACTURED	11,894								11,894
3111 IRON ORE AND CONCENTRATES	49,714,974	3,348,601	485,152	4,976,893	21,067		80,783,119	62,682	
3151 IRON ORE AND CONCENTRATES	70,984			70,984		34			
3201 MANGANESE ORES, CONCENTRATES	24,057			24,057					
3201 MANGANESE ORES, CONCENTRATES	154,189	7	70,227		63,955				
3201 COAL AND Lignite	34,099,505			13,083,447	393,211		19,706,537	6,152	19,163
3311 CRUDE PETROLEUM	50,766	54,766							
1411 LIMESTONE	19,910,860			2,611,280			17,206,000		3,971
1412 BUILDING STONE, UNARMED	25,760			25,760					
1442 GANES, GRAVELY, CRUSHED ROCK	3,936,565	1,079,004	4	409,111	50,635		511,715	9,035	1,877,061
1451 CLAY	289,626	1	10,867	116,068	52,815		109,875		
1491 SALT	2,330,362	1,556,975	13	741,076	40,296		*	*	
1492 SULPHUR, DRY	260			260					
1494 CYPSTW, CRUDE AND PLASTER	1,124,567			65,652	20		1,058,895		
1499 INORGANIC MINERALS, NEC	1,722,817	87,535	57,800	20,110	5,004		987,881	7,737	60,750
1911 ORDNANCE AND ACCESSORIES	167	119	45						
2311 MEAT, FRESH, CHILLED, FROZEN	415			122		42		251	
2912 MEAT AND PRODUCTS, NEC	95	46	10			39			
2914 TALLOW, ANIMAL FATS AND OILS	35,349			86	35,263				
2015 ANIMAL BY-PRODUCTS, NEC	2,298	165	20	395	1,718				
2021 DAIRY PRODUCTS, NEC	4,990		69		726		4,195		
2022 DRIED MILK AND CREAM	40,694				40,698				
2031 FISH AND SHELLFISH, PREPARED	39,302		32				39,360		
2034 VEGETABLE OILS AND PREPS, NEC	2,573	523	414		20		1,616		
2039 DRIED FRUIT AND VEG JUICE, NEC	4,279	2,849	1,830						
2701 WHEAT FLOUR AND SEMOLINA	35,041				35,041				
2002 ANIMAL FEEDS	17,745	137	307		18,310		2,011		
2009 GRAIN MILL PRODUCTS, NEC	130,769	361	327		130,081				
2061 SUGAR	11,602	2,756	8,806						
2061 ALCOHOLIC BEVERAGES	9,545	3,047	6,402	10	65				21
2061 VEGETABLE OILS, MARG, SHORT	20,382		1,731		18,651				
2062 ANIMAL OILS AND FATS, NEC	73		73						
2094 GROCERIES	312						284		28
2910 TOFFEE	326		257				69		
2911 MISCELLANEOUS FOOD PRODUCTS	40,699	163	1,662		34,879		1,770		15
2111 TIN-PLATED MANUFACTURES	26		26						
2211 BASIC TEXTILE PRODUCTS	16,356	270	16,027	2	57				
2311 APPAREL	1,156	17	135		1,004				
2411 LOGS	8,236			4,568	1,898		44		2,130
2413 FUEL WOOD, CHARCOAL, BASTES	23				20		3		
2415 PULPWOOD, LOGS	2,971						2,971		
2416 AGED CHIPS, STAVES, HOLDINGS	22								
2421 LUMBER	31,202	23,965	112	1,940	1,324		3,820		41
2431 VENEER, PLYWOOD, WORKED WOOD	12,672	580	139	248	1,839		2,075	7,795	
2491 WOOD MANUFACTURES, NEC	6,687	29	104	48	18		6,692		
2511 FURNITURE AND FIXTURES	2,125	319	1,780				26		
2611 PULP	174,390	51,521	103,927	65	544		18,335		
2621 STANDARD NEWSPRINT PAPER	140,238	130,475					5,763		
2631 PAPER AND PAPERBOARD	108,985	1,022	2,269	517	380		102,077	2,720	
2691 PULP AND PAPER PRODUCTS, NEC	623	212	270	14	127				
2711 PRINTED MATTER	485	37	246	133	69				
2810 SOOTY HYDROCARB	18,956						14,910		4,030
2811 CRUDE TAR, OIL, GAS PRODUCTS	62,998	53,035	452						29,511
2812 DYES, PIGMENTS, TANNING MATS	10				10				
2813 ALCOHOLS	72,021	25,464	568		935			37,857	7,197
2817 BENZENE AND TOLUENE	156,446	33,310		13,504			30,180	36,687	42,005
2819 BASIC CHEMICALS AND PROD, NEC	365,839	43,046	18,719	40,860	4,232		110,651	2,906	141,825
2821 PLASTIC MATERIALS	4,398	1,017	2,077	51	1,253				
2822 SYNTHETIC RUBBER	2,593	2	100	4	170		2,307		
2823 SYNTHETIC (MAN-MADE) FIBERS	20	16			2				
2831 DRUGS	850	393	409		48				
2841 SOAP	4,194	163	379	13	3,639				
2851 PAINTS	29,002	7,183	21,779		80				
2861 GUM AND WOOD CHEMICALS	1,924		87		19		1,610		
2871 NITROGENOUS CHEM FERTILIZERS	432,086	38,871	176,133				94,911	162,571	

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY (CONTINUED)
FREIGHT TRAFFIC, 1986 (CONTINUED)

COMMODITY	TOTAL	FOREIGN					DOMESTIC		
		IMPORTS		EXPORTS			COASTWISE	LAKERTIME	INTERNAL
		CANADIAN	OVERSEAS	CANADIAN	OVERSEAS	COASTWISE			
2872 POTASSIC CHEM FERTILIZERS-----	1,115,768	1,110,251	-----	-----	-----	-----	5,617	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	13,109	-----	-----	-----	88	-----	88	12,933	-----
2875 INSECTICIDES, DISINFECTANTS-----	1,310	215	604	110	363	-----	-----	-----	-----
2877 FERTILIZER AND MATERIALS, NEC-----	78,100	25,924	29,465	-----	22	-----	3,417	-----	22,293
2891 MISCELLANEOUS CHEMICAL PRODS-----	9,514	2,030	2,454	91	1,072	-----	632,611	91,034	20,384
2911 GASOLINE-----	864,380	113,451	29	6,875	-----	-----	189,256	2,389	15,544
2912 JET FUEL-----	213,810	-----	-----	6,621	-----	-----	10,559	-----	3,580
2913 KEROSENE-----	14,139	-----	-----	-----	-----	-----	369,291	-----	247,229
2914 DISTILLATE FUEL OIL-----	808,044	150,751	-----	20,888	-----	-----	364,919	-----	167,105
2915 RESIDUAL FUEL OIL-----	820,838	257,092	31,058	664	-----	-----	32,200	67,371	1,400
2916 LUBRICATING OILS AND GREASES-----	109,827	819	7	48,021	9	-----	13,836	-----	63,394
2917 VAPATHA, PETROLEUM SOLVENTS-----	108,949	31,693	-----	-----	26	-----	472,030	46,309	204,394
2918 ASPHALT, TAR, AND PITCHES-----	793,068	35,289	23	35,010	-----	-----	114,980	94,835	24,102
2920 COKE, PETROLEUM COKE-----	1,569,342	67,226	-----	864,140	343,054	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	3,670	-----	-----	3,000	-----	-----	666	-----	0
2951 ASPHALT BUILDING MATERIALS-----	326	-----	-----	326	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	3,415	20	36	-----	10	-----	-----	-----	3,340
3011 RUBBER AND MISC PLASTIC PROD-----	14,176	508	3,489	54	270	-----	9,455	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	436	65	367	-----	4	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1,769	545	1,098	9	117	-----	-----	-----	-----
3241 BUILDING CEMENT-----	3,823,928	860,685	20,034	22,339	-----	-----	2,855,200	65,166	-----
3251 STRUCTURAL CLAY PRODUCTS-----	50,667	2,010	4,887	-----	-----	-----	83,790	-----	-----
3271 LIME-----	1,608	-----	-----	-----	-----	-----	1,608	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	3,509	945	1,726	21	22	-----	555	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,520	211	730	4	51	-----	519	-----	-----
3311 PIG IRON-----	94,451	85,266	-----	-----	-----	-----	960	8,223	-----
3312 SLAG-----	610,815	20,095	-----	-----	-----	-----	424,456	165,464	-----
3313 IRON AND STEEL PRIMARY FORMS-----	587,713	42	388,034	-----	15,566	-----	1,000	182,647	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,487,728	28,085	2,306,296	-----	6,727	-----	18,077	131,936	-----
3316 IRON AND STEEL PLATES, SHEETS-----	110,893	-----	16,590	-----	27,324	-----	3,692	62,487	-----
3317 IRON AND STEEL PIPE AND TUBE-----	36,115	12	32,771	-----	818	-----	-----	2,910	-----
3318 FERROALLOYS-----	101,501	31,540	37,853	-----	-----	-----	1,600	30,708	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	75,387	1,889	5,076	2,189	7,440	-----	2,703	54,039	552
3321 NONFERROUS METALS, NEC-----	4,818	1,351	3,436	0	27	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	1,109	253	922	-----	34	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	107,690	350	107,337	3	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	15,191	7,026	7,342	-----	23	-----	-----	-----	-----
3811 FABRICATED METAL PRODUCTS-----	40,302	7,380	18,510	69	498	-----	1,058	12,787	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	97,925	4,742	77,379	779	12,104	-----	2,039	480	-----
3611 ELECTRICAL MACH AND EQUIP-----	6,309	660	3,414	54	2,177	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	14,930	7,256	5,165	178	2,021	-----	310	-----	-----
3731 SHIPS AND BOATS-----	462	12	188	7	235	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1,028	2	415	6	47	-----	558	-----	-----
3811 INSTN, TIME, PHOTO, OPT GOODS-----	1,024	320	372	183	989	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	3,375	95	921	-----	16	-----	2,303	-----	-----
4011 IRON AND STEEL SCRAP-----	1,458,043	136	459	18,141	1,274,701	-----	4,667	153,823	4,111
4012 NONFERROUS METAL SCRAP-----	53,936	1,678	51,453	97	706	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	27	-----	-----	10	17	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	47	-----	-----	47	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	3,033	-----	-----	-----	-----	-----	61	2,972	-----
4112 COMMODITIES, NEC-----	37,074	1,682	1,173	12H	1,195	-----	32,881	-----	15
4118 WATERWAY IMPROVEMENT MAT-----	121,328	-----	-----	-----	-----	-----	31,529	-----	89,799
9999 DEPARTMENT OF DEFENSE AND SCI-----	3,684	-----	-----	-----	3,684	-----	-----	-----	-----

* SALT INCLUDED IN NONMETALLIC MINERALS, NEC, TO AVOID DISCLOSURE OF INDIVIDUAL COMPANY OPERATIONS.

SECTION 1

FREIGHT TRAFFIC

**ST. PAUL, MN, DISTRICT
(GREAT LAKES PORTION)
LAKE SUPERIOR AREA**

3

TAC MARSHALS (GREAT LAKES), MN, U.S.

SECTION INCLUDES: ST. PAUL RIVER, CONTROLLING DEPTHS: 24 FEET EXCEPT FOR A 20 FOOT AREA ALONG THE EAST PROJECT LINE. PROJECT DEPTHS: 25 FEET IN LAKE SUPERIOR AND 24 FEET NEAR ENTRANCE. NAVIGATION SEASONS: MARCH 3 TO SHIPPED ALL WINTER LOADS.

CUMULATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	3,645,403	1952	5,059,948
1975	10,517,263	1983	9,054,999
1973	11,452,715	1984	7,676,523
1972	11,157,661	1985	9,631,235
1981	11,332,237	1986	6,608,616

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHIRT TONS)

ITEM	TOTAL	LAKEWISE SHIPMENTS	LOCAL
ALL TRADES	4,820,616	4,800,616	3
ALL TRADES, EXCEPT SHELLFISH	3	3	3
ALL TRADES, EXCEPT SHELLFISH	4,820,616	4,800,616	3

DULUTH-SUPERIOR HARBOR, MN, U.S. & M.R.

SECTION INCLUDES: SUPERIOR RIVER AND ITS tributaries, ST. LOUIS RIVER AND ST. LOUIS BAY, AND ALLOUEZ BAY. CONTROLLING DEPTHS: 32 FEET IN LAKE SUPERIOR, DIMINISHING TO A MAXIMUM OF 20 FEET IN CERTAIN INNER CHANNELS; THERE ARE NUMEROUS 1-2 FOOT SHOALS SCATTERED IN PORTIONS OF THE DULUTH AND SUPERIOR HARBOUR BASINS. PROJECT DEPTHS: 32 FEET IN LAKE APPROACHING 27 FEET IN DULUTH AND SUPERIOR HARBOUR BASINS, SHIPPIHg FRUIT CHANNEL AND IN SPECIALLY ROUTED THROUGH NORTH AND SOUTH CHANNELS TO D. M. & T. R.R. DULUTH, 27 FEET IN HARBOR BAY AND ALLOUEZ BAY; 25 FEET IN REMAINING PORTION OF SOUTH, UPPER, AND MINNEOTA CHANNELS TO HALLET DOCK NO. 59 AND 24 FEET FROM THE END TO NORTHERLY END OF CEDAR ISLAND. NAVIGATION SEASONS: APRIL 3 TO JANUARY 11.

CUMULATIVE STATEMENT OF TRAFFIC

YEAR	TONS	CARS OF FREIGHT	YEAR	TONS	PASSENGERS
1977	33,419,210	204,514	1952	27,436,085	206,944
1974	45,441,344	231,824	1963	30,090,178	176,004
1973	41,725,674	198,650	1964	37,255,941	122,732
1981	31,474,564	235,690	1985	28,816,841	196,000
	39,425,503	244,555	1986	29,155,300	215,150

FREIGHT TRAFFIC, 1986

(SHIRT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL		
		IMPORTS	EXPORTS	IMPORTS	EXPORTS			
TOTAL	29,155,300	59,196	2,882,871	934,084	2,506,176	1,328,809	21,805,501	138,659
1102 HORSE AND MULE	394,072		239,958		140,114			
2104 GATES	10,156			10,156				
2107 MEAT	2,651,129		1,900,265		135,050		757,618	
2111 SWEATERS	1,0630		10,636					
2119 SHELFWARE, NEC	272,020		271,077	1,543				
2123 FIELD CROPS, NEC	11,177		11,087	90				
2133 LUMBER	112	112						
2141 FRESH AND FROZEN VEGETABLES	26,141	1	26,140					
2142 FRESH FISH, EXCEPT SHELLFISH	110							116
2151 IRON ORE AND CONCENTRATES	14,970,172		21,067		2,096,829		12,850,276	
2159 NONFERROUS ORE, CONCENTRATES, NEC	83,955		83,955					
2161 COAL AND LIGNITE	8,342,767					155,006	6,187,761	
2161 LIMESTONE	940,545					844,545		
2192 SAND, GRAVEL, CRUSHED ROCK	107,200							107,200
2195 CLAY	82,812		2,808		80,004			
2199 MINERALS, MINERALS, NEC	85,559			49,255		36,304		
2202 DAIRY MILK AND CREAM	3,046		3,048					
2231 FISH AND SHELLFISH, PREPARED	2	2						
2242 ANIMAL FEEDS	137			137				
2243 SWATTA MILL PRODUCTS, NEC	76,933		76,649	284				
2261 ALCOHOLIC BEVERAGES	26	26						
2279 MISCELLANEOUS FOOD PRODUCTS	10,787	13	10,774					
2281 BASIC TEXTILE PRODUCTS	5,077	5,077						
2411 LOGS	450		450					
2413 FUEL WOOD, CHARCOAL, PASTES	20		20					
2421 LOGS	1,361			1,361				
2611 PULP	51,521			51,521				
2621 STANDARD NEWSPRINT PAPER	127,461			127,461				
2631 PAPER AND PAPERBOARD	411			411				
2691 PULP AND PAPER PRODUCTS, NEC	14				14			
2819 BASIC CHEMICALS AND PLASTIC, NEC	18		18					
2911 GASOLINE	8,511					8,511		
2914 DISTILLATE FUEL OIL	27,984					9,097		18,887
2915 RESIDUAL FUEL OIL	20,640			4,184				16,456

Waterborne Commerce of the United States, 1986

INDUSTRIES-INTERIOR HARBOR, MINN. AND NIS,--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		FREIGHT		RECEIVED SHIPLISTS	LOCAL
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
2920 COKE, PETROLEUM COKE-----	211,614	-----	133,662	-----	43,423	33,334	-----
3011 CABLES AND MISC PLASTIC PROJ-----	11	11	-----	-----	-----	-----	-----
3201 BUILDING CEMENT-----	438,161	-----	-----	167,065	-----	248,426	12,050
3251 STAINLESS STEEL PRODUCTS-----	27	22	-----	-----	-----	-----	-----
3281 CUT STEEL AND STEEL PRODUCTS-----	95	93	-----	-----	-----	-----	-----
3312 SLAG-----	3,546	-----	-----	-----	-----	3,535	-----
3315 IRON, STEEL SHAPES, ETC SHAPED-----	51,493	51,893	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,552	1,552	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	94	94	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	247	89	158	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	149	147	2	-----	-----	-----	-----
3611 ELECTRIC MACH. AND EQUIP-----	62	52	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	36,146	-----	1,265	-----	2,213	-----	-----
4112 COMMERCIAL SCRAP-----	13	13	-----	-----	-----	-----	-----

ST. PAUL, MN, DISTRICT (GREAT LAKES PORTION)

5

THREE HARBOURS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT			
ASHLAND HARBOR, WIS.	1011 IRON ORE AND CONCENTRATES----- 1121 COAL AND LIGNITE----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2411 LOGS----- 2419 BASIC CHEMICALS AND PRDNG, NEC----- 4291 MISC NONMETALLIC MINERAL PROD----- TOTAL-----	45 130,570 2,970 44 20 75 133,724	----- ----- ----- ----- ----- ----- -----
BAYFIELD HARBOR, WIS.	0911 FRESH FISH, EXCEPT SHELLFISH----- 1011 IRON ORE AND CONCENTRATES----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 1499 NONMETALLIC MINERALS, NEC----- 2411 LOGS----- 2421 LUMBER----- 2491 SOIL MANUFACTURES, NEC----- 2711 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 2921 LIQUEFIED GASES----- 3241 BUILDING CONSTR----- 3291 MISC NONMETALLIC MINERAL PROD----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 4112 COMMODITIES, NFC-----	74 45 2,970 140 44 23 73 96 149 104 60 119 310 4,062	----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- 14,309
BEAVER BAY HARBOR, MINN.	0911 FRESH FISH, EXCEPT SHELLFISH-----	9	-----
CHIPPENA HARBOR (ISLE ROYALE), MICH.	NO COMMERCE REPORTED		
CORNICOPIA HARBOR, WIS.	0911 FRESH FISH, EXCEPT SHELLFISH----- 1442 SAND, GRAVEL, CRUSHED ROCK----- TOTAL-----	43 90 133	----- ----- -----
GRAND MARAIS HARBOR, MINN.	0911 FRESH FISH, EXCEPT SHELLFISH-----	37	-----
KVIFE RIVER HARBOR, MINN.	0911 FRESH FISH, EXCEPT SHELLFISH-----	1	-----
LA POINTE HARBOR, WIS.	2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 2921 LIQUEFIED GASES----- 4112 COMMODITIES, NFC-----	96 149 104 3,972	----- ----- ----- -----
LUTSEN HARBOR, MINN.	NO COMMERCE REPORTED		
PORT KING HARBOR, WIS.	0911 FRESH FISH, EXCEPT SHELLFISH-----	87	-----
WARRIOR HARBOR, MINN.	NO COMMERCE REPORTED		
NONPROJECT			
SILVER BAY, MINN.	0911 FRESH FISH, EXCEPT SHELLFISH----- 1011 IRON ORE AND CONCENTRATES----- 1121 COAL AND LIGNITE----- TOTAL-----	7 1,623,560 12,951 1,636,518	----- ----- ----- -----
TACOVITE HARBOR, MINN.	1011 IRON ORE AND CONCENTRATES----- 1411 LIMESTONE----- 2915 RESIDUAL FUEL OIL----- TOTAL-----	5,944,609 147,581 9,752 6,101,942	----- ----- ----- -----

Waterborne Commerce of the United States, 1986

CHICAGO, IL, DISTRICT

TAKEAWAY HARBOUR, ILL.

SECTION INCLUDES: ARTIFICIAL HARBOUR BASIN OF ABOUT 13.5 ACRES AND ENTRANCE CHANNEL FROM LAKE MICHIGAN APPROXIMATELY 2,000 FEET IN LENGTH. PROJECT DEPTH: 22 FEET IN ENTRANCE CHANNELS TO FEET BETWEEN PIERS AND INNER BASIN; 8 FEET IN ANCHORAGE AREA OF APPROXIMATELY 6 ACRES.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	477,157	1982	114,033
1978	478,733	1983	192,183
1979	504,291	1984	343,142
1980	266,363	1985	424,619
1981	211,049	1986	464,213

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	LAKENWISE RECEIPTS
TOTAL	864,213
1494 GYPSUM, CRUDE AND PLASTER	252,402
3221 BUILDING CEMENT	210,851
3311 FLG IRON	960

CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDES: MAIN RIVER FROM RUSH STREET TO JUNCTION OF NORTH AND SOUTH BRANCHES; NORTH BRANCH TO NORTH AVENUE. PROJECT DEPTH: 21 FEET FROM RUSH STREET TO THE MAIN RIVER TO NORTH AVENUE IN THE NORTH BRANCH, INCLUDING THE NORTH BRANCH CANAL AND THE NORTH TURNING BRANCH (ASTRA).

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	2,453,313	1982	2,568,479
1978	2,745,261	1983	1,853,720
1979	2,798,123	1984	1,901,775
1980	2,625,907	1985	1,565,893
1981	2,290,800	1986	2,677,886

* PASSENGERS--24,680.

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	CANADIAN THROUGH DOWNBOUND
TOTAL	6,149
1311 CRUDE PETROLEUM	6,149
TRUCKS, FOREIGN,	

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKENWISE		INTERNAL			THROUGH		
		RECEIPTS	THROUGH UPBOUND	DOWNBOUND	RECEIPTS	SHIPMENTS	LOCAL	UPBOUND	DOWNBOUND
TOTAL	2,671,737	108,882	244,165	760,300	549,864	45,684	913,868	83,767	5,207
0111 SOYBEANS	1,686					1,686			
0931 MARINE SHELLS, UNMANUFACTURED	1,476							1,076	
1011 IRON ORE AND CONCENTRATES	870,806			479,806					
1121 COAL AND LIGNITE	31,301		17,987		13,314				
1411 LIMESTONE	25,754			25,754					
1442 SAND, CRUSHED ROCK	990,736				111,836		868,050	20,250	
1499 NONMETALLIC MINERALS, NEC	275,521	108,882		13,983	113,506		39,150		
2010 TALLOW, ANIMAL FATS AND OILS	29,869					29,869			
2810 SODIUM HYDROXIDE	7,104		7,104						
2871 NITROGENOUS CHEM FERTILIZERS	16,723		16,723						
2911 GASOLINE	5,936			5,936					
2912 JET FUEL	12,797			12,797					
2913 KEROSENE	9,819		6,259		3,580				
2914 DISTILLATE FUEL OIL	120,218		70,856		45,356				
2915 RESIDUAL FUEL OIL	216,305		79,298		130,885			3,786	2,340
2916 LUBRICATING OILS AND GREASES	19,600			19,600					

CHICAGO, IL, DISTRICT

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CHICAGO RIVER (MAIN AND SOUTH BRANCHES, ILL.
INCLUDED IN PORT OF CHICAGO--CONT'D)

FREIGHT TRAFFIC, 1986--CONT'D

DOMESTIC--CONT'D

(SHORT TONS)

COMMODITY	TOTAL	LAKEPIKE		INTERSTATE		LOCAL	THROUGH UPBOUND	THROUGH DOWNBOUND
		RECEIPTS	SHIPPMENTS	UPBOUND	DOWNBOUND			
2917 NAPHTHA, PETROLEUM SOLVENTS--	15,303			10,413	2,023			
2918 ASPHALT, TAR, AND PITCHES--	4,199				4,199			
2920 COKE, PETROLEUM COKE--	18,255							18,255
3241 WILDLIFE CEMENT--	1,19,719				15,199	94,326		
5312 SLAG--	3,360					3,360		
3313 IRON AND STEEL PRIMARY FORMS--	37,027				1,000	35,113	914	
3315 IRON, STEEL SHAPES, EXC SHEET--	141,491					141,491		
3316 IRON AND STEEL PLATES, SHEETS--	5,900					5,900		
3317 IRON AND STEEL PIPE AND TUBE--	10,743					10,743		
3319 IRON AND STEEL PRODUCTS, VARIOUS--	14,935					14,935		
3321 ALUMINUM AND ALLOYS--	1,061					1,061		
3401 FABRICATED METAL PRODUCTS--	2,208					2,208		
3511 MACHINERY, EXCEPT ELECTRICAL--	511					511		
3711 MOTOR VEHICLES, PARTS, EQUIP--	2,491					2,491		
4011 IRON AND STEEL SCRAP--	19,351						19,215	6,116
4118 WATERWAY IMPROVEMENTS--	31,529			31,529				
TON-MILES, DOMESTIC,	3,571,055.							
TONS, ALL TRAFFIC,	2,677,846.							
TON-MILES, ALL TRAFFIC,	3,597,234.							

CHICAGO RIVER, SOUTH BRANCH, ILL. (INCLUDES IN PORT OF
CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION INCLUDED: CANARY AVENUE TO LAKE STREET. PROJECT DEPTH: 4 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977--	3,099,545	1982--	
1978--	3,050,289	1983--	
1979--	3,526,459	1984--	
1980--	3,510,705	1985--	
1981--	3,343,329	1986--	

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	CANADIAN IMPORTS
TOTAL-----	6,149	6,149
1311 CRUDE PETROLEUM--		6,149

TON-MILES, FOREIGN, 6,149.

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEPIKE		INTERSTATE		LOCAL	THROUGH UPBOUND	THROUGH DOWNBOUND
		SHIPMENTS	UPBOUND	DOWNBOUND	RECEIPTS			
TOTAL-----	3,327,612	3,360	244,165	160,300	455,253	168,444	137,700	1,481,581
0111 SOYBEANS--	3,171					1,445		1,056
0931 MARINE SHELLS, UNMANUFACTURED--	1,476							1,476
1011 IRON ORE AND CONCENTRATES--	279,806			479,806	411,384			
1121 COAL AND LIGNITE--	442,685		17,987		411,384			13,314
1411 LIMESTONE--	25,750			25,754				
1402 SAND, GRAVEL, CRUSHED ROCK--	1,151,318				13,882		137,700	299,736
1499 NONMETALLIC MINERALS, ETC--	192,380			13,983	25,741			11,500
2019 TALLOW, ANIMAL FATS AND OILS--	29,869							22,460
2421 LUMBER--	2,224					2,224		
2621 STANDARD NEWSPRINT PAPER--	934				934			
2810 SODIUM HYDROXIDE--	7,104		7,104					
2821 PLASTIC MATERIALS--	1,827				1,827			
2871 NITROGENOUS CHEM FERTILIZERS--	16,723		16,723					
2911 GASOLINE--	5,936			5,936				
2912 JET FUEL--	12,797			12,797				
2913 KEROSENE--	9,819		6,259	3,560				
2914 DISTILLATE FUEL OIL--	120,211		74,856	45,358				
2915 RESIDUAL FUEL OIL--	216,305		79,294	130,885				3,786
2916 LUBRICATING OILS AND GREASES--	19,600			19,600				2,300
2917 NAPHTHA, PETROLEUM SOLVENTS--	15,303		10,413	2,023				2,067
2918 ASPHALT, TAR, AND PITCHES--	4,199			4,199				
2920 COKE, PETROLEUM COKE--	19,740				1,485		18,255	

Waterborne Commerce of the United States, 1986

CHICAGO RIVER, SOUTH BRANCH, ILL. (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE		INTERNAL		LOCAL	THROUGH	
		SHIPMENTS	UPBOUND	DOWNBOUND	RECEIPTS		UPBOUND	DOWNBOUND
5241 IRON AND STEEL, SCRAP	1,927,149	-----	-----	15,399	-----	-----	94,320	-----
5312 IRON AND STEEL, PRIMARY FORMS	3,500	-----	-----	-----	-----	-----	3,360	-----
5314 IRON AND STEEL, PRIMARY FORMS	37,027	-----	-----	1,000	-----	-----	35,113	914
5315 IRON AND STEEL, SHAPES, EXC. SHEET	1,917,171	1,680	-----	-----	-----	-----	141,491	-----
5316 IRON AND STEEL, PLATES, COLD-ROLLED	5,908	-----	-----	-----	-----	-----	5,908	-----
5317 IRON AND STEEL, PIPE, IN TUBE	17,743	-----	-----	-----	-----	-----	10,743	-----
5319 IRON AND STEEL PRODUCTS, NEC	14,935	-----	-----	-----	-----	-----	14,383	552
5324 IRON AND STEEL, PLATES, WIDE FLAT	1,000	-----	-----	-----	-----	-----	1,000	-----
5411 IRON AND STEEL, METAL PARTS, LTS	2,204	-----	-----	-----	-----	-----	2,208	-----
5412 IRON AND STEEL, EXCEPT ELECTRICAL	511	-----	-----	-----	-----	-----	511	-----
5711 IRON AND STEEL, EXCEPT ELECTRICAL	2,441	-----	-----	-----	-----	-----	2,441	-----
5712 IRON AND STEEL, EXCEPT ELECTRICAL	1,57,745	1,680	-----	-----	164,735	-----	-----	19,331
5713 IRON AND STEEL, EXCEPT ELECTRICAL	31,529	-----	31,529	-----	-----	-----	-----	-----
TOTAL, LAKEWISE	13,579,032							
TOTAL, ALL TRAFFIC	3,355,761							
DOMESTIC, ALL TRAFFIC	16,555,141							

CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION EXCLUDED: CHICAGO SANITARY AND SHIP CANAL, DAVEN AVENUE, CHICAGO TO LOCKPORT, ILL. PROJECT DEPTH: 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	21,826,537	1982	-----
1978	16,942,498	1983	-----
1979	20,013,114	1984	-----
1980	22,687,576	1985	-----
1981	21,706,164	1986	-----

FREIGHT TRAFFIC, 1986

LAKEWISE

(SHORT TONS)

COMMODITY	TOTAL	DOMESTIC LAKEWISE			
		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND
TOTAL	1,101,882	297,598	284,668	17,987	580,829
5111 IRON ORE AND CONCENTRATES	479,806	-----	-----	-----	479,806
5112 OILS AND LIGHT FUELS	17,987	-----	-----	17,987	-----
5114 LIMESTONE	25,754	-----	-----	-----	25,754
5159 NONMETALLIC MINERALS, NEC	13,983	13,983	-----	-----	-----
5210 BODIALLY HYDROCARBONS	7,104	-----	7,104	-----	-----
5211 INORGANIC CHEM. FERTILIZERS	19,222	-----	19,222	-----	-----
5211 GASOLINE	5,936	5,936	-----	-----	-----
5212 JET FUEL	12,797	1,981	-----	-----	10,816
5213 KEROSENE	10,538	8,279	6,259	-----	-----
5214 DISTILLATE FUEL OIL	143,664	63,114	78,856	-----	5,694
5215 RESIDUAL FUEL OIL	243,168	149,283	93,685	-----	-----
5216 LUBRICATING OILS AND GREASES	32,200	32,200	-----	-----	-----
5217 ASPHALT, PETROLEUM SOLVENTS	13,836	2,023	11,813	-----	-----
5218 ASPHALT, TAR, AND PITCHES	23,799	23,799	-----	-----	-----
5241 IRON AND STEEL, PRIMARY FORMS	15,399	-----	-----	-----	15,399
5312 IRON AND STEEL SHAPES, EXC. SHEET	1,000	1,000	-----	-----	-----
5315 IRON AND STEEL, SCRAP	1,000	-----	-----	-----	1,000
5411 IRON AND STEEL, METAL PARTS, LTS	1,680	-----	-----	-----	1,680
TOTAL, LAKEWISE	18,269,935				

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPBOUND	DOWNBOUND
TOTAL	18,422,964	7,085,609	1,698,107	2,169,272	4,705,157	2,724,819
5103 CORN	372,177	-----	180,146	1,751	5,320	188,960
5104 OATS	15,724	-----	-----	-----	7,077	8,287
5117 WHEAT	130,626	-----	25,216	-----	1,578	103,632
5111 STARCHES	481,430	-----	194,598	-----	-----	286,832
5112 LEAF OF COTTON, AND ALLIED GUMS	2,838	2,838	-----	-----	-----	-----
5113 MARINE SHELLS, UNMANUFACTURED	11,894	-----	-----	-----	11,894	-----
5114 IRON ORE AND CONCENTRATES	59,358	2,684	-----	-----	56,674	-----

CHICAGO, IL, DISTRICT

CHICAGO SANITARY AND SHIP CANAL, ILL. (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	SHIPMENTS	LOCAL	THROUGH	
					UPRIVER	DOWNSRIVER
1051 ALUMINUM OXIDE, CERAMIC, ETC.	2,964	1,400			1,564	
1061 MAGNESE OXIDE, CONCENTRATES	2,256	4,213			17,232	411
1091 NONFERROUS METALS, CERAMIC, NEC	9,637				9,637	
1121 COAL AND COALITE	4,099,233	3,143,714			1,530,250	15,265
1311 LEAD, PIG, ETC.	14,124		1,085,513			31,916
1411 LIVESTOCK	15,240	8,707			6,533	
1442 SAND, GRAVEL, CRUSHED ROCK	2,524,706	837,891	240,300	1,312,200	132,833	1,482
1451 CLAY	1,409				1,409	
1499 NONMETALLIC MINERALS, NCFCA	646,176	314,632	1,448	60,750	269,346	
2014 TALLOW, ANIMAL FATS AND OILS	95,945		17,097			39,808
2042 ANIMAL FEEDS	4,540					4,340
2049 COAL, AT&T, ETC.	1,663					1,063
2061 SOAPS	75,766	47,320			28,446	
2062 MOLASSES	50,795				50,795	
2091 VEGETABLE OILS, HAVING, SHORT	10,737				5,362	2,375
2415 PULPWOOD, CUBIC FEET	1,384	1,384				
2421 CLOTHES	10,449	3,200			5,025	2,224
2431 VEGETABLE, PULPWOOD, APPROX. AND	11,007	1,775			9,232	
2611 PULP	1,321	1,321				
2621 STANDARD PAPERPRINT PAPER	934				934	
2631 PAPER AND PAPERBOARD	19,120	11,571			7,549	
2810 SOLUBLE HYDROCARBON	564,155	378,020	83,305	678	177,152	
2811 CRUDE TARS, OILS, GAS PRODUCTS	145,731	33,602	57,678	27,812		26,639
2815 ALCOHOLS	432,570	259,531	2,844	7,197	162,998	
2817 BENZENE AND TOLUENE	132,051	6,153	28,266	42,875	44,747	10,000
2818 SULPHURIC ACID	1,597		1,597			
2819 BASIC CHEMICALS AND FLUID, VEC	450,549	244,653	17,086	29,789	135,707	23,314
2921 PLASTIC MATERIALS	1,627				1,827	
2971 INORGANIC CHEM FERTILIZERS	217,219	6,165			187,907	23,147
2972 POTASSIUM CHEM FERTILIZERS	1,778				1,478	
2973 PHOSPHATIC CHEM FERTILIZERS	14,269	5,736			12,933	
2979 FERTILIZER AND MATERIALS, VEC	31,574	1,496			26,999	3,079
2991 MISCELLANEOUS CHEMICAL PRODS	87,592	5,736			52,814	28,842
2991 GASOLINE	224,475	36,400	24,356	17,227	48,843	97,638
2992 JET FUEL	17,937				15,548	2,389
2993 KEROSENE	36,473	19,930			3,580	6,963
2994 DISTILLATE FUEL OIL	437,925	130,943	73,109	226,905	6,968	
2995 RESIDUAL FUEL OIL	642,312	263,623	146,490	133,589	40,650	57,960
2996 LUBRICATING OILS AND GREASES	340,908	263,401	1,202	1,400		74,905
2997 VAPOR-THER PETROLEUM SOLVENTS	190,134	79,199	18,456	60,332	17,514	20,437
2998 ASPHALT, TAR, AND BITUMENS	749,670	195,234	101,734	200,947	17,350	234,605
2999 COKE, PETROLEUM COKE	1,030,557	122,689	370,107	21,300	336,349	179,472
3291 PETROLEUM AND COKE PRODS, NEC	6,349	1,000			1,600	
3291 BUILDING CEMENT	572,886	453,155	187		119,566	
3271 LIME	74,403				62,344	12,059
3291 CUT STONE AND STONE PRODUCTS	50,600	7,600				
3311 PTG IRON	50,276	7,069			41,762	1,485
3312 SLAG	298,089				244,036	54,053
3314 IRON AND STEEL PRIMARY FORGS	327,221	27,593			200,815	99,013
3315 IRON, STEEL SHAPES, ETC, SHEET	521,866	53,267	6,480		315,830	146,289
3316 IRON AND STEEL PLATES, SHEETS	157,151	18,970			30,453	107,728
3317 IRON AND STEEL PIPE AND TUBE	99,435	15,751			32,084	1,600
3318 FERROALLOYS	163,312	12,399			139,423	11,500
3319 IRON AND STEEL PRODUCTS, NEC	113,942	27,391	4,569	552	19,727	61,703
3321 NONFERROUS METALS, VEC	9,204				9,204	
3323 LEAD AND ZINC, UNREFINED	16,716	3,245			13,071	
3324 ALUMINUM AND ALLOYS, UNREFINED	21,137	3,186			17,951	
3411 FABRICATED METAL PRODUCTS	34,731	18,136			16,595	
3511 MACHINERY, EXCEPT ELECTRICAL	8,444	983			7,461	
3711 MOTOR VEHICLES, PARTS, EQUIP	2,491				2,491	
3731 SHIPS AND BOATS	16					16
4011 IRON AND STEEL SCRAP	852,847	1,922	56,028	1,566	35,595	757,776
4012 NONFERROUS METAL SCRAP	1,567					1,567
4029 WASTE AND SCRAP, NEC	12,667		9,695			2,972
4111 WATER	1,200		1,200			

TONNABLES, INTERNAL, 257,891,837.

TONS, ALL TRAFFIC, 19,524,046.

TONNABLES, ALL TRAFFIC, 276,161,772.

CALUMET-SAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO,
ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

SECTION 1 INCLUDES CALUMET-SAG CHANNEL FROM ITS JUNCTION WITH CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND, LITTLE CALUMET AND CALUMET RIVERS TO TURNIPS BASIN, C. S. PROJECT DEPTH: 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	6,343,439	1,620	1982	5,441,831	392
1978	5,034,231	1,200	1983	6,445,250	600
1979	5,430,427	1,290	1984	5,577,763	650
1980	6,042,097	1,300	1985	5,828,780	40,358
1981	5,441,966	1,500	1986	7,503,147	-----

Waterborne Commerce of the United States, 1986

CALUMET-SAG CHANNEL, ILL. (INCLUDED IN PORT OF CHICAGO)
NOT INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY--COURTESY

FREIGHT TONNAGE, TONS

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKESIDE			FRESHWATER			LNG	THROUGH SHIPMENT	THROUGH SHIPMENT
		RECEIPTS	SHIPPED	SHIPPED	RECEIPTS	SHIPMENTS				
TOTAL	7,503,117	38,221	542,810	92,754	550,251	314,689	439,061	3,210,413	2,310,937	
9103 COAL	142,031								7,071	154,960
9104 JETS	15,724								1,477	4,247
0107 MEAT	1,65,410								1,375	1,35,432
0111 SOYBEADS	253,661									283,661
0931 MARINE SHELLS, MANUFACTURED	10,418								10,418	
1011 IRON ORE AND CONCENTRATES	530,490		472,906						55,674	
1051 ALUMINUM ORES, CONCENTRATES	1,560								1,564	
1061 MANGANESE ORES, CONCENTRATES	18,043								17,232	811
1091 NONFERROUS METALS, CONCENTRATES	9,657								9,546	
1171 COAL AND LIGHTS	1,138,800			17,387					1,105,552	15,245
1511 CRUDE PETROLEUM	31,916									
1411 LIMESTONE	32,247		25,754		1,320				5,013	
1442 SAND, GRAVEL, CRUSHED ROCK	25,933				6,048		6,750	5,467	7,618	
1451 CLAY	1,409								1,404	
1499 NONMETALLIC MINERALS, NEC	130,099				4,663		3,079		125,236	
2014 TALLOW, ANIMAL FATS AND OILS	9,979									
2042 ANIMAL FEEDSTOCK	9,340									4,340
2049 OILMILL PRODUCTS, NEC	1,863									1,863
2051 SUGAR	28,446									
2052 MOLASSES	50,795									
2091 VEGETABLE OILS, WAX, SHORT	10,737									
2421 LUMBER	5,025									
2431 VENEER, PLYWOOD, WOOD PAPER	9,232									
2631 PAPER AND PAPERBOARD	7,519									
2810 SODIUM HYDROXIDE	140,512									
2811 CRUDE TAR, OIL, GAS PRODUCTS	50,301									
2813 ALCOHOLS	166,290									
2817 BENZENE AND TOLUENE	93,183									
2819 BASIC CHEMICALS AND PRIO, NEC	245,113									
2871 VITRIFIED CHEM FERTILIZERS	213,553		2,499		97,422			127,664	44,747	36,372
2872 POTASSIC CHEM FERTILIZERS	1,474							111,656	38,285	47,770
2873 PHOSPHATIC CHEM FERTILIZERS	12,933							187,907	25,147	
2979 FERTILIZER AND MATERIALS, NEC	30,078								1,471	
2891 MISCELLANEOUS CHEMICAL PHOS	91,656								12,933	
2911 GASOLINE	159,957								26,841	3,079
2912 JET FUEL	46,872	30,255							52,814	26,542
2913 KEROSENE	11,252			714					10,311	100,783
2914 DISTILLATE FUEL OIL	69,115	7,944		23,450	6,964			14,228	1,887	2,389
2915 RESIDUAL FUEL OIL	192,879		14,591	14,594	54,244	57,960	52,957	9,964	4,761	
2916 LUBRICATING OILS AND GREASES	87,545			12,600		7,534			67,371	
2917 NAPHTHA, PETROLEUM SOLVENTS	85,553		1,400		11,159	7,181	17,164	3,075		
2918 ASPHALT, TAR, AND PITCHES	461,155			14,600	6,906	191,932	173,411	10,444	58,892	
2920 COKE, PETROLEUM COKE	519,415				46,760	4,065	3,100	289,683	175,407	
2991 PETROLEUM AND COAL PHOS, NEC	3,349							3,349		
3241 BUILDING CEMENT	46,605		15,399		3,200				22,046	
3271 LIME	74,403								62,344	12,059
3311 PIG IRON	43,217								34,214	1,445
3312 SLAG	298,059								234,645	57,413
3314 IRON AND STEEL PRIMARY FORMS	263,401								98,099	
3315 IRON, STEEL SHAPES, LXL SHEET	322,308		1,640		26,330				148,002	146,289
3316 IRON AND STEEL PLATES, SHEETS	132,273				5,417	2,128			19,128	105,600
3317 IRON AND STEEL PIPE 4" & UP	22,941				2,377				19,964	1,600
3318 FERROALLOYS	150,923								130,273	11,500
3319 IRON AND STEEL PRODUCTS, NEC	67,047								5,344	60,467
3321 NONFERROUS METALS, NEC	9,204								9,204	
3323 LEAD AND ZINC, UNWORKED	13,471								13,471	
3324 ALUMINUM AND ALLOYS, UNWORKED	16,471								15,606	
3411 FABRICATED METAL PRODUCTS	14,387								14,387	
3511 MACHINERY, EXCEPT ELECTRICAL	6,950								6,950	
3731 SHIPS AND BOATS	16									
4011 IRON AND STEEL SCRAP	618,501		1,650					16		
4012 NONFERROUS METAL SCRAP	1,567									1,567
4029 WASTE AND SCRAP, NEC	2,972									2,972
TOTAL TON-MILES	167,318,675									

LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: ENTRANCE CHANNEL FROM THE CALUMET RIVER TO A HARBOR AREA AT SOUTH END OF LAKE WITH A CHANNEL EXTENDING NORTHWARD FOR A DISTANCE OF 3,000 FEET AND A DEPTH OF 1,000 FEET. PROJECT DEPTH 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	1,354,761	3,240	1982	942,514	
1978	1,814,313		1983	1,106,304	
1979	2,512,113		1984	1,485,476	
1980	1,314,538		1985	1,419,181	
1981	1,163,649		1986	1,054,483	

CHICAGO, IL, DISTRICT

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LAKE CALUMET, ILL. (INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

CITY	TOTAL	FOREIGN		LAKEVIEW		DOMESTIC		LOCAL	
		OVERSEAS		CANADIAN		INTERVAL			
		IMPORTS	EXPORTS	THROUGH	RECEIPTS	SHIPMENTS	RECEIPTS		
TOTAL	1,154,943	81,742	1,162	96,449	350,420	2,995	459,224	277,597	
0103 CORN	22,031							22,031	
0107 MEAT	6,033							6,033	
0111 SILVER	34,152							34,132	
1051 ALUMINUM ORE, CONCENTRATES	1,564						1,564		
1061 MANGANESE ORES, CONCENTRATES	1,416						1,406		
1811 LIMESTONE	29,474				22,000		3,474		
1402 SAND, GRAVEL, CRUSHED ROCK	20,230							20,250	
1499 NONMETALLIC MINERALS, INC.	115,816		897	11,274	45,054		46,088		
2014 TALLOW, ANIMAL FATS, & OILS	497								
2042 ANIMAL SEEDS	1,510							1,500	
2051 SALT	3,336						3,736		
2081 ALUMINUM SPECIERS, ETC.	2,017								
2091 VEGETABLE OILS, FATS, & OILS	2,012	1,114	232					700	
2810 STONE, HYDROCARBON PROD.	115,501						112,141		
2811 COKE, TAR, OIL, GAS PRODUCTS	30,714			4,532				10,080	
2813 ALCOHOL	17,521			24,229				3,292	
2817 PETROLEUM, TOLUENE, & TOLUENE DERIVATIVES	12,275			5,047				10,080	
2819 BASIC CHEMICALS AND PHOS. FUELS	25,944	5,401		9,370	77,627		51,600	23,314	
2822 ORGANIC CHEM. FERTILIZERS	31,376			29,406			1,478		
2876 INSECTICIDES, DISINFECTANTS	20								
2891 MISCELLANEOUS CHEMICAL PROD.	76,453		16				52,151	24,716	
2917 SAPPHIRES, PETROLEUM SOLVENTS	15,320			4,409			1,355	2,746	
2920 COKE, PETROLEUM COKE	2,458						2,458		
3281 IRON AND STEEL CEMENT	214,737				194,634		10,092		
3271 LIME	57,752						67,344		
3311 IRON AND STEEL PRIMARY FORMS	1,538						1,508		
3314 IRON AND STEEL SHAPES, EXC. SHEET	8,338						8,338		
3315 IRON AND STEEL PLATES, SHEETS	152,264	86,286			9,721		68,826	1,373	
3316 IRON AND STEEL PLATES, SHEETS	3,242	771					2,471		
3317 IRON AND STEEL PIPE AND TUBE	420	404							
3318 FERROALLOY	7,200						7,200		
3319 IRON AND STEEL PRODUCTS, ETC.	1,410	20			1,380				
3322 COPPER ALLOY, INGOT	42	42							
3323 LEAD AND ZINC, INGOT	66	66							
3324 ALUMINUM AND ALLOYS, INGOT	1,430						1,400		
3411 FABRICATED METAL PROD., ETC.	50	40							
3511 MACHINERY, EXCEPT ELECTRICAL	216	216							
3611 ELECTRICAL MACH. AND EQUIP.	20	20							
3791 ALSO TRANSPORTATION EQUIPMENT	4	6							
4011 IRON AND STEEL SCRAP	161,459						1,337	19,140	
TOTAL FRESHWATER	1,250,725							140,892	

CALUMET HARBOR AND RIVER, ILL. AND IND.
(INCLUDED IN PORT OF CHICAGO)

SECTION INCLUDED: CALUMET HARBOR AND RIVER TO TURNING BASIN NO. 5, PROJECT DEPTH: 29 FEET IN APPROACH CHANNEL, 28 FEET IN OUTER HARBOR AND HARBOUR AREA, 27 FEET IN RIVER EXIT/ENTRANCE CHANNEL TO F. J. & E. R. R. BRIDGE, AND 27 FEET IN RIVER TO AND INCLUDING BASIN NO. 5.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR		TONS
		TONS	TONS	
1977	19,738,637	1982		12,778,095
1978	25,242,282	1983		12,050,073
1979	24,014,852	1984		13,740,110
1980	16,415,499	1985		12,799,728
1981	17,631,426	1986		11,481,257

* PARSED 5/25/87 1,300.

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

CITY	TOTAL	OVERSEAS		CANADIAN		THROUGH WESTBOUND
		IMPORTS	EXPORTS	THROUGH	RECEIPTS	
		EASTBOUND	WESTBOUND	IMPORTS	EXPORTS	
TOTAL	1,289,414	1,103,071	423,730	1,162	88,982	1,017,148
0103 CORN	91,420		44,641			47,179
0104 CATTLE	5,100					5,100
0111 SILVER	140,046		140,046			
0129 FRESH CROPS, INC.	40	40				
0141 FRESH AND FROZEN VEGETABLES	26	26				
0861 FOREST PRODUCTS, INC.	12	12				
2911 FRESH FISH, EXCEPT SHELLFISH	5	5				
1011 IRON ORE AND CONCENTRATES	532,711	126,841			405,670	
1051 ALUMINUM ORE, CONCENTRATES	49,807	49,792	15			
1061 MANGANESE ORES, CONCENTRATES	9,447	9,447				
1191 COAL AND Lignite	14,961					14,961
1311 COKE, PETROLEUM	37,411					37,411
1402 SAND, GRAVEL, CRUSHED ROCK	4	4				
1451 CLAY	74,032	163	66,153			27,716
1499 NONMETALLIC MINERALS, INC.	281,385	30,506			222,605	28,274

Waterborne Commerce of the United States, 1986

CALUMET HARBOR AND RIVER, ILL. AND IND.
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

FREIGHT--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS			CANADIAN		
		IMPORTS	EXPORTS	THROUGH EASTBOUND	WESTBOUND	IMPORTS	EXPORTS
2011 MEAT, FRESH, CHILLED, FROZEN	22	22					
2014 TALLOW, ANIMAL FATS AND OILS	497						
2015 ANIMAL BY-PRODUCTS, NEC	82	53					29
2021 DAIRY PRODUCTS, NEC	64	69					
2031 FISH AND SHELLFISH, PREPARED	5	8					
2032 VEGETABLES AND PREP, NEC	170	170					
2033 PREP, FRUIT AND VEG JUICE, NEC	425	425					
2042 ANIMAL FEEDS	527	35	491				
2049 GRAIN MILLS, PRODUCTS, NEC	65	65					
2081 ALCOHOLIC BEVERAGES	1,314	1,213		17			64
2091 VEGETABLE OILS, MARG, SHORTS	1,551	209		232	1,110		
2095 ICE	160	166					
2099 MISCELLANEOUS FOOD PRODUCTS	2,024	435	2,184				
2111 IMPACT MANUFACTURES	26	24					
2211 BASIC TEXTILE PRODUCTS	190	198	1				1
2311 APPAREL	40	45	1				
2421 LUMBER, PAPER, MURKED WOOD	20,157	21				20,156	
2431 LUMBER, PAPER, MURKED WOOD	528	15				512	
2491 A. O. OIL MANUFACTURES, NEC	21	21					
2511 FURNITURE AND FIXTURES	194	193					6
2631 PAPER AND PAPERBOARD	765	644	2			122	
2691 PULP AND PAPER PRODUCTS, NEC	17	16	1				
2711 PRIVATE WATER	20	19	7				
2811 CHIEF TAR, OIL, GAS PRODUCTS	56,701	42				42,127	
2815 ALCOHOLS	23,346	40				4,079	14,229
2817 BISCUITS AND COOKIES	31,655					25,408	5,647
2819 BASIC CHEMICALS AND PROD, NEC	45,184	3,233	1,045		9,941	25,555	9,370
2821 PLASTIC MATERIALS	584	490	99				
2822 SYNTHETIC RUBBER	5	5					
2831 CHOCOLATE	134	120	15				
2841 SOAP	90	90					
2851 PAINTS	572	361					11
2861 CH. AN. WO. CHEMICALS	87	87					
2872 POTASSIUM CHEM FERTILIZERS	116,038					86,140	29,898
2876 INSECTICIDES, DISINFECTANTS	97	29	57		20		
2891 MISCELLANEOUS CHEMICAL PROD	591	167	408	16			
2911 CAST IRON	9,450					9,450	
2914 DISTILLATE FUEL OIL	7,165						7,100
2915 RESIDUAL FUEL OIL	3,054						3,831
2916 LUBRICATING OILS AND GREASES	1		1				
2917 ASPHALT, PETROLEUM SOLVENTS	26,955		26			20,430	4,449
2918 ASPHALT, TAR, AND PITCHES	24,066					24,658	
2920 COKE, PETROLEUM COKE	625,448		186,787			324,812	383,659
2991 PETROLEUM AND OIL PROD, NEC	21	21					
3011 RUBBER AND MIS. PLASTIC PROD	405	899	6				
3111 LEATHER AND LEATHER PRODUCTS	228	228					
3211 GLASS AND GLASS PRODUCTS	430						
3241 BUILDING CEMENT	60	60					
3251 STRUCTURAL CLAY PRODUCTS	2,031	2,031					
3261 CLAY STONE AND STONE PRODUCTS	281	281					
3291 MISC NONMETALLIC MINERAL PROD	198	158	40				
3314 IRON AND STEEL PRIMARY FORMS	32,323	32,261					62
3315 IRON, STEEL SHAPES, EXC SHEET	916,197	630,759			40,286	5,042	
3316 IRON AND STEEL PLATES, SHEETS	12,671	11,360			771		
3317 IRON AND STEEL PIPE AND TUBE	16,600	16,196			474		
3318 FERROALYS	16,154	12,588				5,566	
3319 IRON AND STEEL PRODUCTS, NEC	24,401	23,350			201	21	
3322 COPPER ALLOYS, UNFORGED	456	456					
3323 LEAD AND ZINC, UNFORGED	90	48				42	
3324 ALUMINUM AND ALLOYS, UNFORGED	16,501	18,434			66		
3411 FABRICATED METAL PRODUCTS	9,618	2,537					7,061
3511 MACHINERY, EXCEPT ELECTRICAL	12,278	12,164	34		80		
3611 ELECTRICAL MACH AND EQUIP	6,694	6,237	434		216	7	
3711 MOTOR VEHICLES, PARTS, EQUIP	1,677	1,638	19		20		
3731 SHIPS AND BOATS	857	746	109				2
3791 MISC TRANSPORTATION EQUIPMENT	31	31					
3811 INSTR, TIME, PHOTO, OPT. GOODS	267	261				6	
3911 MISC MANUFACTURED PRODUCTS	33	28	3			2	
4011 IRON AND STEEL SCRAP	326	318	2				
4012 NONFERROUS METAL SCRAP	9,539		6,936				2,603
4112 COMMODITIES, NEC	607	847					
4999 DEPARTMENT OF DEFENSE AND SCI	270	252	23				1
	27		27				

TON-MILES, FURNISHED 4,226,879.

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEMIKE			
		RECEIPTS	SHIPMENTS	THROUGH EASTBOUND	WESTBOUND
TOTAL	3,359,976	1,791,575	1,092,057	24,845	451,449
1011 IRON ORE AND CONCENTRATES	669,450	669,450	-----	-----	-----
1121 COAL AND LIGHTE	1,146,023	253,029	890,994	-----	-----
1411 LIMESTONE	869,648	847,648	-----	-----	22,000
1499 NONMETALLIC MINERALS, NEC	54,784	47,730	-----	-----	45,058

CHICAGO, IL, DISTRICT

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CALUMET HARBOUR AND RIVER, ILL., AND IND.
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1965--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	LAKEWATER			
		RECEIPTS	SHIPMENTS	THROUGH EASTBOUND	WESTBOUND
2610 SODIUM HYDROXIDE	7,814				
2817 BENZENE AND TOLUENE	1,400				
2819 BASIC CHEMICALS AND PROD., NEC	77,627				17,627
2871 NITROGENOUS CHEM FERTILIZERS	37,768	35,269	24,099		
2911 GASOLINE	7,294	7,294			
2912 JET FUEL	21,424	1,985			19,439
2913 KEROSENE	719				719
2914 DISTILLATE FUEL OIL	42,034	16,132			25,622
2915 RESIDUAL FUEL OIL	50,167	17,178	14,591	14,398	
2916 LUBRICATING OILS AND GREASES	12,600				12,600
2917 NAPHTHA, PETROLEUM SOLVENTS	1,400			1,400	
2918 ASPHALT, TAR, AND PITCHES	19,400				19,400
2920 COKE, PETROLEUM COKE	114,950	114,950			
3201 BUILDING CEMENT	179,239				179,239
3271 LIME	1,608			1,504	
3315 IRON, STEEL SHAPES, EXC SHEET	11,411			11,582	3,721
3316 IRON AND STEEL PLATES, SHEETS	3,492	2,920	72		
3318 FERROALLOYS	1,400	1,400			
3319 IRON AND STEEL PRODUCTS, NEC	2,793	1,415			1,381
4011 IRON AND STEEL SCRAP	4,667	1,600	3,067		
TON-MILES, LAKESIDE	14,046,733				

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	RECEIPTS	INTERNAL			
			LOCAL	THROUGH EASTBOUND	WESTBOUND	
TOTAL	4,847,367	2,077,893	1,027,185	146,103	574,029	928,157
0103 CRANES	170,000	5,320	131,139	1,751		31,792
0104 OATS	15,724	7,477	5,247			
0107 WHEAT	99,377	1,578	79,335			18,464
0111 SOYBEANS	249,529		194,620			54,909
0931 MARINE SHELLS, MANUFACTURED	10,418				10,418	
1011 IRON ORE AND CONCENTRATES	71,129	8,447	14,455		48,227	
1061 MANGANESE ORES, CONCENTRATES	16,637	15,426	811			
1091 NONFERROUS ORES, CONCENT., NEC	6,646	4,846				
1121 COAL AND LIGNITE	1,139,980	3,100,972	13,793	19,163	45,580	1,472
1411 LIMESTONE	3,117	1,535		1,542		
1442 SAND, GRAVEL, CRUSHED ROCK	35,335			40,050	1,417	27,868
1451 CLAY	1,409	1,409				
1499 NOVOMETALLIC MINERALS, NEC	78,749	71,011			7,737	
2042 ANIMAL FEEDS	2,640		2,640			
2049 GRAIN MILL PRODUCTS, NEC	1,863		1,863			
2061 SUGAR	12,096	12,096				
2062 MOLASSES	14,427	14,427				
2091 VEGETABLE OILS, MANG, SHORT	10,037	4,362	1,675			
2421 LUMBER	5,025	5,025				
2431 VENEER, PLYWOOD, WOODWARD ADODD	9,232	1,037			7,795	
2631 PAPER AND PAPERBOARD	7,549	4,829			2,721	
2811 CRUDE TAR, OIL, GAS PRODUCTS	28,829		16,559	12,270		
2813 ALCOHOLS	44,165	10,508				
2817 BENZENE AND TOLUENE	54,491	8,100		9,704	36,647	
2819 BASIC CHEMICALS AND PROD., NEC	6,685	3,779			2,906	
2871 NITROGENOUS CHEM FERTILIZERS	211,054	47,083	1,400		140,824	21,741
2873 PHOSPHATIC CHEM FERTILIZERS	12,933				12,933	
2879 FERTILIZER AND MATERIALS, NEC	26,920	4,627			19,214	3,079
2891 MISCELLANEOUS CHEMICAL PROD	4,789	663	4,126			
2911 GASOLINE	102,670	1,087	6,600	3,149		91,034
2912 JET FUEL	2,389					2,389
2913 KEROSENE	10,543	6,963		3,580		
2914 DISTILLATE FUEL OIL	4,412			4,412		
2915 RESIDUAL FUEL OIL	30,192	6,402		23,790		
2916 LUBRICATING OILS AND GREASES	67,371					67,371
2917 NAPHTHA, PETROLEUM SOLVENTS	23,757		10,710	13,047		
2918 ASPHALT, TAR, AND PITCHES	69,336	3,260	3,548	16,219	7,184	39,125
2920 COKE, PETROLEUM COKE	483,489	248,100	117,755	22,796	37,186	57,652
3201 BUILDING CEMENT	11,954	11,954				

Waterborne Commerce of the United States, 1986

CALUMET HARBOR AND RIVER, ILL. AND IND.
(INCLUDED IN PORT OF CHICAGO)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	RECEP'TS	SHIPMENTS	LOCAL	THROUGH	
					FORWARD	REVERSE
3201 COKE	12,050	-----	12,050	-----	-----	-----
4311 IRON, IRONORE	34,152	24,444	1,445	-----	-----	14,223
4312 IRON	292,059	112,825	13,370	-----	121,821	44,043
5314 IRON AND STEEL, IRONORE, ETC.	255,463	64,996	7,820	-----	92,568	90,279
5315 IRON, STEEL, SHAPES, ETC. SHEET	225,195	59,769	14,946	-----	19,414	111,225
5316 IRON AND STEEL PLATE, SHEETS	132,257	16,637	42,713	-----	-----	62,887
5317 IRON AND STEEL PIPE, ETC. 1 IN.	20,564	17,650	-----	-----	1,314	1,600
5318 IRON ALLOYS	145,723	102,715	10,300	-----	29,508	1,207
5319 IRON AND STEEL PRODUCTS, ETC.	67,294	6,777	5,861	-----	-----	53,601
5321 INFERNOUS METALS, ETC.	9,204	9,204	-----	-----	-----	-----
5323 LEAD AND ZINC, MINERALS	13,471	13,471	-----	-----	-----	-----
5324 ALUMINUM AND ALLOYS, MINERALS	14,200	14,206	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS	14,387	1,600	-----	-----	12,787	-----
5311 MACHINERY, EXCEPT ELECTRICAL	5,950	5,970	-----	-----	480	-----
1011 IRON AND STEEL, ALUMINUM	452,397	7,036	285,598	9,750	10,369	143,454
1012 IRON AND STEEL, METAL, ETC.	1,547	-----	1,547	-----	-----	-----
1022 WASTE AND SCAFF, METAL	2,972	-----	-----	-----	-----	2,972
1030 METALS, ETC., METAL	16,546,550	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC	11,481,757	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC	54,260,151	-----	-----	-----	-----	-----
	6	-----	-----	-----	-----	-----

PORT OF CHICAGO, ILL.

SECTION FIVE (5): CHICAGO HARBOR, CHICAGO RIVER, MAIN AND NORTH BRANCH, CHICAGO RIVER, SOUTH BRANCH, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL AND LAKE CALUMET, ILL., CALUMET HARBOR AND RIVER, ILL. AND IND.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	36,116,148	381,562	1982	26,819,793	331,152
1978	59,150,722	329,082	1983	24,450,287	591,901
1979	58,692,988	373,754	1984	23,813,368	655,124
1980	32,973,242	304,744	1985	22,610,102	504,000
1981	31,549,167	300,070	1986	20,330,497	604,816

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL	3,376,141	1,297,154	424,900	1,150,487	503,602
2103 COKE	91,820	-----	44,641	-----	47,173
2104 CATS	5,100	-----	-----	5,100	-----
2111 COKEOADS	140,046	-----	140,046	-----	-----
2129 FILLED CROPS, ETC.	40	40	-----	-----	-----
2191 FRESH AND FROZEN VEGETABLES	26	26	-----	-----	-----
2061 FOREST PRODUCTS, ETC.	12	12	-----	-----	-----
2091 FRESH FRUIT, EXCEPT SHELLFISH	5	5	-----	-----	-----
2111 IRON ORE AND CONCENTRATES	557,812	151,982	-----	405,870	-----
2151 ALUMINUM ORE, CONCENTRATES	49,007	49,792	14	-----	-----
2161 IRON ORE, CONCENTRATES	9,467	9,467	-----	-----	-----
2171 COAL AND Lignite	10,961	-----	-----	-----	14,961
2181 CRUDE PETROLEUM	43,560	-----	-----	43,560	-----
2192 SAND, GRAVEL, CRUSHED ROCK	4	4	-----	-----	-----
2193 NONMETALLIC MINERALS, ETC.	74,032	163	46,153	-----	27,716
2201 MEAT, FRESH, CURED, FROZEN	312,130	30,506	-----	277,624	-----
2010 FALLOWS, ANIMAL FEATS AND OILS	22	22	-----	-----	-----
2015 ANIMAL BYPRODUCTS, ETC.	897	-----	897	-----	-----
2021 DAIRY PRODUCTS, ETC.	92	-----	53	29	-----
2031 FISH AND SHELLFISH, PREPARED	69	69	-----	-----	-----
2034 VEGETABLES AND PEPPA, ETC.	8	8	-----	-----	-----
2039 FRESH FRUIT AND VEG JUICY, ETC.	170	170	-----	-----	-----
2042 ANIMAL FLESH	425	425	-----	-----	-----
2042 GRAIN MILL PRODUCTS, ETC.	527	36	891	-----	-----
2043 ALCOHOLIC BEVERAGES	65	65	-----	-----	-----
2051 VEGETABLE OILS, MARG, SHORT	1,314	1,213	17	86	-----
2095 ICE	1,551	1,319	232	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	166	166	-----	-----	-----
2111 TOBACCO MANUFACTURES	2,624	435	2,180	-----	-----
2111 BASIC TEXTILE PRODUCTS	28	26	-----	-----	-----
2111 APPAREL	190	186	1	1	-----
2121 LUMBER	46	45	1	-----	-----
2131 WENGER, PLYWOOD, WURKED WOOD	20,197	81	-----	20,136	-----
2131 WOOD MANUFACTURES, ETC.	926	16	-----	912	-----
2151 FURNITURE AND FIXTURES	21	21	-----	-----	-----
	149	101	101	101	101

CHICAGO, IL, DISTRICT

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PORT OF CHICAGO, ILL.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
2631 PAPER AND PAPERBOARD	768	644	2	122	-----
2691 PULP AND PAPER PRODUCTS, NEC	17	16	1	-----	-----
2711 PRINTED MATTER	26	19	7	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS	50,701	42	-----	50,659	-----
2813 ALCOHOLS	23,348	40	-----	23,348	-----
2817 BENZENE AND TOLUENE	51,055	-----	-----	31,055	-----
2819 BASIC CHEMICALS AND PROD, NEC	45,134	9,174	1,055	3,072	-----
2821 PLASTIC MATERIALS	589	420	99	-----	-----
2822 SYNTHETIC RUBBER	5	-----	5	-----	-----
2831 DRUGS	139	124	15	-----	-----
2841 SOAP	96	96	-----	-----	-----
2851 PAINTS	372	361	-----	11	-----
2861 GUM AND ADAM CHEMICALS	87	47	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS	116,038	-----	-----	116,038	-----
2876 INSECTICIDES, DISINFECTANTS	97	40	57	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD	591	167	424	-----	-----
2911 GASOLINE	9,450	-----	-----	9,450	-----
2914 DISTILLATE FUEL OIL	7,050	-----	-----	7,050	-----
2915 RESIDUAL FUEL OIL	5,834	-----	-----	3,834	-----
2916 LUBRICATING OILS AND GREASES	1	-----	1	-----	-----
2917 ASPHALT, PETROLEUM SOLVENTS	26,955	-----	26	26,929	-----
2918 ASPHALT, TAR, AND PITCHES	24,648	-----	-----	24,648	-----
2920 COKE, PETROLEUM COKE	643,680	-----	140,787	58,802	404,091
2991 PETROLEUM AND COAL PROD, NEC	21	21	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD	905	899	6	-----	-----
3111 LEATHER AND LEATHER PRODUCTS	228	228	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS	430	430	-----	-----	-----
3241 BUILDING CEMENT	60	60	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS	2,031	2,031	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS	281	281	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD	198	158	40	-----	-----
3314 IRON AND STEEL PRIMARY FORMS	52,325	32,261	-----	42	-----
3315 IRON, STEEL SHAPES, EXL SHEET	916,087	911,045	-----	5,002	-----
3316 IRON AND STEEL PLATES, SHEETS	12,071	12,071	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE	16,600	16,600	-----	-----	-----
3318 FERROALLOYS	18,154	12,588	-----	5,566	-----
3319 IRON AND STEEL PRODUCTS, NEC	2,401	2,390	21	-----	-----
3321 NONFERROUS METALS, NEC	456	456	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED	90	90	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED	18,501	18,501	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED	9,618	2,537	-----	7,081	-----
3411 FABRICATED METAL PRODUCTS	12,271	12,244	34	-----	-----
3511 MACHINERY, FACPT ELECTRICAL	6,494	6,453	434	7	-----
3611 ELECTRICAL MACH AND EQUIP	1,677	1,658	19	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP	857	796	109	2	-----
3731 SHIPS AND BOATS	31	31	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT	267	267	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS	33	28	3	2	-----
3911 MISC MANUFACTURED PRODUCTS	320	318	2	-----	-----
4011 IRON AND STEEL SCRAP	9,539	-----	6,936	-----	2,663
4012 NONFERROUS METAL SCRAP	847	847	-----	-----	-----
4112 COMMODITIES, NEC	276	252	23	1	-----
9999 DEPARTMENT OF DEFENSE AND SCI	27	-----	27	-----	-----

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE		INTERNAL		LOCAL
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL	20,954,356	2,586,696	1,343,080	11,158,094	3,535,706	2,330,780
0103 CORN	340,387	-----	-----	5,320	333,316	1,751
0104 OATS	15,724	-----	-----	7,477	8,247	-----
0107 WHEAT	112,162	-----	-----	1,578	110,584	-----
0111 SOYBEANS	426,521	-----	-----	-----	426,521	-----
0841 CRUDE RUBBER AND ALLIED GUMS	2,838	-----	-----	2,838	-----	-----
1011 IRON DRE AND CONCENTRATES	695,436	669,850	-----	11,131	14,455	-----
1051 ALUMINUM DRES, CONCENTRATES	2,964	-----	-----	2,960	-----	-----
1051 MANGANESE DRES, CONCENTRATES	22,256	-----	-----	21,445	811	-----
1091 NONFERROUS DRES, CONCENT, NEC	9,637	-----	-----	9,637	-----	-----
1121 COAL AND LIGNITE	5,848,267	255,029	890,994	4,669,288	13,793	19,163
1311 CRUDE PETROLEUM	140,229	-----	-----	140,229	-----	-----
1411 LIMESTONE	685,470	869,648	-----	15,240	-----	1,582
1442 SAND, GRAVEL, CRUSHED ROCK	2,521,807	-----	-----	969,307	240,300	1,312,200
1451 CLAY	1,409	-----	-----	1,409	-----	-----
1499 NONMETALLIC MINERALS, NEC	816,088	177,649	-----	576,241	1,448	60,750
2014 TALLSM, ANIMAL FATS AND OILS	56,945	-----	-----	-----	56,945	-----
2042 ANIMAL FEEDS	4,340	-----	-----	-----	8,340	-----
2049 GRAIN MILL PRODUCTS, NEC	1,863	-----	-----	-----	1,863	-----
2061 SUGAR	75,766	-----	-----	75,766	-----	-----
2062 MOLASSES	50,795	-----	-----	50,795	-----	-----
2091 VEGETABLE OILS, MARG, SHORT	10,737	-----	-----	8,362	2,375	-----
2415 PULPWOOD, LOG	1,384	-----	-----	1,384	-----	-----
2421 LUMBER	10,449	-----	-----	8,225	2,224	-----
2431 VENEER, PLYWOOD, WORKED WOOD	3,212	-----	-----	3,212	-----	-----
2611 PULP	1,328	-----	-----	1,328	-----	-----
2621 STANDARD NEWSPRINT PAPER	934	-----	-----	934	-----	-----
2631 PAPER AND PAPERBOARD	16,400	-----	-----	16,400	-----	-----

Waterborne Commerce of the United States, 1986

PORT OF CHICAGO, ILL.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	LAKEWIS		INTERNAL		LOCAL
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2810 SODIUM HYDROXIDE	582,433	14,918	555,172	8,305	4,038	
2811 CRUDE TARY, OILY, GAS PRODUCTS	145,731	-----	33,602	40,317	27,812	
2813 ALCOHOLS	394,713	-----	384,672	2,844	7,197	
2817 SELENE AND TOLUENE	96,804	1,400	14,253	38,346	42,805	
2818 SULPHURIC ACID	1,597	-----	-----	1,597	-----	
2819 BASIC CHEMICALS AND PAINT, NEC	636,906	77,627	377,454	40,000	141,425	
2821 PLASTIC MATERIALS	1,627	-----	1,627	-----	-----	
2871 NITROGENOUS CHEM FERTILIZERS	109,159	-----	54,511	53,244	1,400	
2872 POTASSIUM CHEM FERTILIZERS	1,474	-----	1,475	-----	-----	
2873 PHOSPHATIC CHEM FERTILIZERS	5,336	-----	5,336	-----	-----	
2879 FERTILIZER AND MATERIALS, NEC	9,281	-----	9,281	-----	-----	
2891 MISCELLANEOUS CHEMICAL PROD	87,392	-----	54,550	28,842	-----	
2911 GASOLINE	146,675	5,936	7,298	85,263	30,956	17,222
2912 JET FUEL	49,769	34,221	-----	-----	-----	15,548
2913 KEROSENE	41,011	4,279	6,259	26,893	-----	3,580
2914 DISTILLATE FUEL OIL	604,605	71,080	91,188	137,911	73,109	231,317
2915 RESIDENTIAL FUEL OIL	915,399	149,283	111,063	304,273	204,450	140,330
2916 LUBRICATING OILS AND GREASES	505,737	32,200	-----	263,401	8,736	1,400
2917 NAPHTHA, PETROLEUM SOLVENTS	207,036	2,023	11,815	90,713	39,093	63,394
2918 ASPHALT, TAR, AND PITCHES	727,560	23,799	-----	205,400	297,214	200,947
2920 COKE, PETROLEUM COKE	1,053,501	-----	114,980	421,892	492,327	24,302
2991 PETROLEUM AND COAL TAR, NEC	6,349	-----	-----	1,400	1,600	3,349
3201 BUILDING CEMENT	767,526	194,638	-----	572,701	187	-----
3271 LIME	76,011	-----	1,608	62,344	12,059	-----
3281 CUT STONE AND STONE PRODUCTS	7,600	-----	-----	7,600	-----	-----
3311 PIG IRON	42,053	-----	-----	40,608	1,445	-----
3312 SLAG	135,585	-----	-----	122,215	13,370	-----
3314 IRON AND STEEL PRIMARY PROD	145,574	1,000	-----	135,840	8,738	-----
3315 IRON, STEEL SHAPES, LAD SHEETS	403,923	9,721	1,680	349,683	42,839	-----
3316 IRON AND STEEL PLATES, SHEETS	97,956	2,920	772	49,423	44,841	-----
3317 IRON AND STEEL PIPE AND TUBE	46,521	-----	-----	46,521	-----	-----
3318 FERRALLOYTS	134,004	1,400	-----	122,300	10,300	-----
3319 IRON AND STEEL PRODUCTS, NEC	64,562	2,793	-----	48,551	12,666	552
3321 NONFERROUS METALS, NEC	9,204	-----	-----	9,204	-----	-----
3323 LEAD AND ZINC, MINERALS	16,716	-----	-----	16,716	-----	-----
3324 ALUMINUM AND ALLOYS, MINERALS	21,137	-----	-----	21,137	-----	-----
3411 FABRICATED METAL PRODUCTS	21,944	-----	-----	21,944	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL	7,964	-----	-----	7,968	-----	-----
3711 MOTOR VEHICLES, PARTS OF EQUIP	2,491	-----	-----	2,491	-----	-----
3731 SHIPS AND BOATS	16	-----	-----	16	-----	-----
4011 IRON AND STEEL SCRAP	705,131	1,600	3,067	24,544	665,800	6,116
4012 NONFERROUS METAL SCRAP	1,567	-----	-----	-----	1,567	-----
4029 RASPB AND SCRAP, NEC	9,695	-----	-----	-----	9,695	-----
4111 WATER	1,200	-----	-----	-----	1,200	-----
4118 WATERWAY IMPROVEMENT MAT	31,529	-----	31,529	-----	-----	-----

TONS, ALL TRAFFIC, 24,330,497.

SUMMARY OF TRAFFIC, CHICAGO AREA, 1986

(SHORT TONS)

LOCALITY	TOTAL	FOREIGN				DOMESTIC				LOCAL	
		OVERSEAS		CANADIAN		COASTWISE		INTERNAL			
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS		
BUFFINGTON HARBOUR, ILL.	576,196	18,908	-----	129,182	-----	425,306	2,800	-----	-----	-----	
GARY HARBOUR, ILL.	3,694,916	-----	-----	30,309	-----	3,504,791	83,937	10,412	69,461	-----	
INDIANA HARBOUR, ILL.	140,014,139	2,01,439	19,671	393,042	55,091	11,054,915	1,616,441	238,654	620,296	10,390	
PORT OF CHICAGO	240,530,177	1,297,154	424,910	1,150,487	503,650	2,586,696	1,343,080	11,158,094	3,535,706	2,330,780	
TOTAL, UNADJUSTED	1,610,742	1,517,701	444,571	1,543,529	718,182	17,571,708	3,046,258	11,407,160	4,029,663	2,341,170	
TOTAL, NET	421,102,856	1,517,701	444,571	1,543,529	718,182	17,078,953	2,553,503	11,403,119	4,016,353	2,833,925	

ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)

SECTION INCLUDES: ILLINOIS RIVER, GRAFTON, ILL. TO CONfluence OF DESPLAINES AND KANKAKEE RIVERS THEN DESPLAINES RIVER TO LOCKPORT, ILL.; CHICAGO SANITARY AND SHIP CANAL, LOCKPORT, ILL. TO DAVEN AVE. IN CHICAGO; CHICAGO RIVER (SOUTH BRANCH), DAMEN AVENUE TO LAKE STREETS CALUMET-SAG CHANNEL, FROM ITS JUNCTION WITH THE CHICAGO SANITARY AND SHIP CANAL TO BLUE ISLAND AND THE LITTLE CALUMET RIVER AND CALUMET RIVER TO TURNING BASIN NO. 5. SEE REPORTS FOR ILLINOIS RIVER, CHICAGO SANITARY AND SHIP CANAL, CALUMET-SAG CHANNEL, AND CHICAGO RIVER, SOUTH BRANCH. PROJECT DEPTH: 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	44,516,298	116,960	1982	42,719,065	78,122
1978	41,609,086	87,630	1983	43,513,677	67,380
1979	39,339,385	66,490	1984	39,530,784	60,060
1980	45,526,962	65,612	1985	38,530,635	100,324
1981	43,111,132	68,738	1986	43,427,150	69,696

CHICAGO, IL. DISTRICT

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ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT
FOR ENTIRE WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1966

FOREGO, COASIMISE AND LAKEWISE

(SHIPT. T. H.)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		THROUGH DOWNBOUND
		CANADIAN	COASIMISE	RECEIPTS	SHIPMENTS	
TOTAL	1,173,212	6,109	270	335,819	244,028	538,746
1011 IRON ORE, 440 CONCENTRATES	479,606	-----	-----	-----	-----	479,606
1101 COAL AND LIGNITE	17,947	-----	-----	-----	-----	17,947
1311 CRUDE PETROLEUM	6,149	1,149	-----	-----	-----	25,758
1411 LIVESTOCK	25,758	-----	-----	-----	-----	25,758
1421 SOLVENT-FACED FIBERGLASS, ETC.	13,903	-----	-----	13,903	-----	7,104
2610 SOLVENT-FACED FIBERGLASS	7,104	-----	-----	-----	19,272	-----
2811 NITROGENOUS CHEM. FERTILIZERS	19,222	-----	-----	5,936	-----	-----
2911 GASOLINE	5,936	-----	-----	32,236	-----	-----
2912 JET FUEL	32,236	-----	-----	4,279	6,259	-----
2913 KEROSENE	10,538	-----	-----	71,080	74,856	-----
2914 DISTILLATE FUEL OIL	145,936	-----	-----	149,283	93,885	-----
2915 RESTORAL FUEL OIL	243,168	-----	-----	52,200	-----	-----
2916 LUBRICATING OILS AND GREASES	32,200	-----	-----	2,023	11,813	-----
2917 MACHINERY, PETROLEUM FRACTION	13,838	-----	-----	23,742	-----	-----
3914 ASPHALT, TAR, AND PITCHES	23,799	-----	-----	15,399	-----	15,399
3241 OILFIELD DRILLING FORMS	15,399	-----	-----	1,000	1,000	-----
3511 IRON AND STEEL PRIMARY FORMS	1,000	-----	-----	1,000	1,000	-----
3315 IRON, STEEL SHAPES, EXC. SHEET	1,680	-----	-----	270	270	-----
3511 MACHINERY, EXC. ELECTRICAL	270	-----	-----	1,680	1,680	-----
4011 IRON AND STEEL SCRAP	1,680	-----	-----	31,529	31,529	-----
9115 WATERWAY IMPROVEMENT MATERIAL	31,529	-----	-----	-----	-----	-----
TON-MILES, FOREGO, COASIMISE AND LAKEWISE,	39,042,842	-----	-----	-----	-----	-----

INTERNAL

(SHIPT. TONS)

COMMODITY	TOTAL	INBOUND		OUTBOUND		UPBOUND	DOWNBOUND	THROUGH	
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL	43,737,946	10,737,392	343,760	1,275,754	17,956,176	5,240,952	1,274,616	3,375,654	2,093,442
0103 COAL	5,610,763	1,603	14,963	7,071	8,407,343	4,738	70,708	-----	169,997
0104 OATS	15,724	-----	-----	-----	-----	-----	7,077	8,247	-----
0105 SODA-ASH	12,971	11,620	-----	-----	30,499	11,852	-----	-----	-----
0107 ASH-IRON	26,240	-----	-----	-----	146,830	-----	-----	1,578	103,512
0111 SODA-ASH	4,770,026	-----	-----	4,448,059	-----	-----	-----	-----	265,147
0111 CRUDE PETROLEUM AND ALLIED OILS	2,838	2,838	-----	-----	-----	-----	-----	-----	-----
0111 MINING, PETROLEUM, EXC. FRACTION	11,370	-----	-----	-----	-----	-----	-----	11,894	-----
1011 IRON ORE AND LIVESTOCK	6,173	4,300	-----	-----	-----	-----	-----	56,674	-----
1051 ALUMINUM ORE, CONCENTRATES	2,908	1,600	-----	-----	-----	-----	-----	1,564	-----
1051 MANGANESE ORE, CONCENTRATES	22,256	4,215	-----	-----	-----	-----	-----	17,232	-----
1091 NITROGENOUS CHEM. FERTILIZERS	9,637	2,791	-----	-----	-----	-----	-----	6,946	-----
1121 COAL AND LIGNEOUS	7,545,251	2,440,282	10,080	-----	1,1617	3,469,220	-----	1,118,856	4,285
1121 CRUDE PETROLEUM	140,269	-----	-----	-----	140,229	-----	-----	-----	-----
1411 LIVESTOCK	29,170	19,157	-----	-----	-----	-----	-----	5,013	-----
1442 SAND, GRAVEL, CRUSHED ROCK	2,571,682	41,312	-----	997,650	38,085	1,251,300	240,300	1,417	7,618
1451 OIL	1,110	-----	-----	-----	-----	-----	-----	1,409	-----
1471 PHOSPHATE, ANHYDROUS	1,502	1,502	-----	-----	-----	-----	-----	-----	-----
1472 NATURAL FERTILIZERS, ETC.	4,913	4,903	-----	-----	-----	-----	-----	-----	-----
1494 OXIDES, CRUDE AND PIGMENTS	20,483	20,483	-----	-----	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, ETC.	936,622	635,602	39,150	-----	1,448	-----	21,600	238,742	-----
2014 TALLOW, ANIMAL FATS AND OILS	56,445	-----	-----	-----	27,076	-----	-----	-----	29,459
2042 ANIMAL FEEDS	1,390,335	24,309	-----	-----	1,357,596	-----	-----	-----	4,540
2049 CRALY HILL PRODUCTS, ETC.	404,000	1,600	-----	-----	400,537	-----	-----	-----	1,643
2051 SUGAR	75,766	60,334	-----	-----	-----	-----	-----	15,432	-----
2062 PASSESS	52,614	48,187	-----	-----	-----	-----	-----	14,427	-----
2071 VEGETABLE OILS, MARG. OILS	32,959	19,500	700	-----	2,722	-----	-----	5,362	1,675
2415 PULPWOOD, LOGS	1,384	1,384	-----	-----	-----	-----	-----	-----	-----
2421 LUMBER	10,449	3,200	-----	-----	7,224	-----	-----	5,025	-----
2431 VEGET. PULPWOOD, MARG. LOGS	11,012	1,775	-----	-----	-----	-----	-----	9,232	-----
2511 PULP	1,328	1,328	-----	-----	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER	934	934	-----	-----	-----	-----	-----	-----	-----
2851 PAPER AND PAPERBOARD	19,120	11,571	-----	-----	-----	-----	7,549	-----	-----
2910 SODIUM HYDROXIDE	574,438	403,011	3,360	-----	15,228	578	-----	112,141	-----
2911 CRUDE TAR, OILS, GAS PRODUCTS	231,256	133,235	13,568	-----	64,512	4,150	-----	-----	15,791
2913 ALCOHOLS	745,230	345,903	-----	6,971	249,647	73,692	67,821	61,194	-----
2917 SULFURIC ACID	147,211	31,045	1,400	-----	36,426	16,513	-----	34,747	10,080
2918 SULPHURIC ACID	1,597	-----	-----	-----	1,597	-----	-----	-----	-----
2919 SODIAC CHEMICALS AND PHOSPH.	1,058,472	1,046,835	116,396	-----	20,796	15,968	11,667	38,285	18,558
2921 PLASTIC MATERIALS	1,527	1,807	-----	-----	-----	-----	-----	-----	-----
2971 NITROGENOUS CHEM. FERTILIZERS	558,502	404,660	-----	10,448	43,594	2,207	27,579	157,459	23,197
2972 PETROGRAPHIC CHEM. FERTILIZERS	129,784	377,541	-----	-----	1,993	17,752	-----	1,478	-----
2973 PHOSPHATIC CHEM. FERTILIZERS	78,099	64,094	-----	1,801	-----	1,072	-----	11,132	-----
2979 FERTILIZER AND MATERIALS, ETC.	860,291	826,030	-----	-----	664	1,605	1,072	23,041	3,079
2991 MISCELLANEOUS CHEM. PROD.	47,392	57,730	-----	-----	-----	-----	-----	52,814	28,242
2911 GASOLINE	207,382	198,207	1,400	1,087	162,922	3,762	232,880	-----	96,239
2912 JET FUEL	25,642	4,486	2,369	-----	3,219	1,320	14,228	-----	-----
2913 KEROSENE	58,179	20,857	-----	-----	3,580	16,979	-----	6,963	-----
2914 DISTILLATE FUEL OIL	900,008	216,160	-----	-----	247,680	197,642	247,560	-----	-----
2915 RESTORAL FUEL OIL	1,265,483	655,696	8,792	3,786	199,053	38,618	71,136	6,802	-----
2916 LUBRICATING OILS AND GREASES	143,677	266,170	-----	-----	8,736	1,400	-----	-----	87,371
2917 MACHINERY, PETROLEUM FRACTION	151,345	7,231	-----	-----	28,669	10,689	12,758	1,355	13,558
2918 ASPHALT, TAR, AND PITCHES	666,697	331,145	16,219	-----	298,900	4,030	183,208	10,444	42,673
2920 COAL, PETROLEUM COAL, PHOSPH.	1,573,726	144,848	1,594	217,622	409,135	46,564	48,280	90,318	173,607
2991 PETROLEUM AND COAL PHOSPH.	6,349	1,400	-----	-----	1,600	-----	3,349	-----	-----

Waterborne Commerce of the United States, 1986

ILLINOIS WATERWAY, ILL. (CONSOLIDATED REPORT
FOR ENTIRE WATERWAY)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND		OUTBOUND		UPBOUND	DOWNBOUND	THROUGH	
		UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
3241 BUILDING CEMENT-----	572,868	456,335	-----	-----	187	-----	-----	116,366	-----
3271 LIME-----	119,753	45,350	-----	-----	-----	-----	-----	62,344	12,059
3281 CUT STONE AND STONE PRODUCTS-----	7,600	7,600	-----	-----	-----	-----	-----	-----	-----
3311 PIG IRON-----	50,276	14,616	-----	-----	-----	-----	-----	34,215	1,445
3312 SLAG-----	298,089	61,039	16,445	3,578	4,823	-----	-----	231,108	40,968
3314 IRON AND STEEL PRIMARY FORMS-----	350,506	45,455	1,000	-----	-----	-----	-----	200,815	97,613
3315 IRON, STEEL SHAPES, EXC SHEET-----	676,665	99,374	19,088	-----	141,502	-----	-----	289,500	128,201
3316 IRON AND STEEL PLATES, SHEETS-----	161,700	25,767	3,894	-----	5,297	-----	-----	25,036	101,706
3317 IRON AND STEEL PIPE AND TUBE-----	57,553	26,246	1,600	-----	-----	-----	-----	29,707	-----
3318 FERROALLOYS-----	154,724	12,389	-----	-----	1,412	-----	-----	139,423	11,500
3319 IRON AND STEEL PRODUCTS, NEC-----	118,473	28,805	20,996	-----	8,922	-----	-----	19,727	40,023
3321 NONFERROUS METALS, NEC-----	9,204	-----	-----	-----	-----	-----	-----	9,204	-----
3323 LEAD AND ZINC, UNWORKED-----	16,716	3,245	-----	-----	-----	-----	-----	13,471	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21,137	4,451	-----	-----	-----	-----	-----	16,646	-----
3411 FABRICATED METAL PRODUCTS-----	34,812	18,217	-----	-----	-----	-----	-----	16,595	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	27,353	3,574	-----	-----	16,313	-----	-----	7,441	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3,308	-----	-----	-----	417	-----	-----	2,491	-----
3731 SHIPS AND BOATS-----	16	-----	-----	-----	16	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	916,555	26,235	47,195	1,400	252,050	-----	-----	12,410	34,195
4012 NONFERROUS METAL SCRAP-----	1,567	-----	-----	-----	19,029	-----	-----	-----	1,567
4029 WASTE AND SCRAP, NEC-----	22,001	-----	-----	-----	1,200	-----	-----	-----	2,972
4111 WATER-----	1,200	-----	-----	-----	-----	-----	-----	-----	-----
4118 WATERWAY IMPROVEMENT MAT-----	15,150	15,150	-----	-----	-----	-----	-----	-----	-----

TON-MILES, INTERNAL, 8,555,870,336.

TON-MILES, ALL TRAFFIC, 43,427,158.

TON-MILES, ALL TRAFFIC, 8,544,919,354.

INDIANA HARBOR, IND.

SECTION INCLUDED: APPROACH CHANNEL, OUTER HARBOR AND CANAL ENTRANCE CHANNEL TO THE FIRST F. J. & E. R. R. BRIDGE; INDIANA HARBOR CANAL, INCLUDING THE CALUMET RIVER BRANCH TO COLUMBUS DRIVE BRIDGE AND THE LAKE GEORGE BRANCH TO 0.2 MILES PAST INDIANAPOLIS BLVD. PROJECT DEPTH: 29 FEET IN APPROACH CHANNEL, 29 FEET IN HARBOR BASIN, 27 FEET IN CANAL ENTRANCE CHANNEL, AND 22 FEET IN REMAINDER OF CANAL TO 0.2 MILES PAST INDIANAPOLIS BLVD. ON LAKE GEORGE BRANCH AND COLUMBUS DRIVE ON CALUMET RIVER BRANCH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	15,958,303	1982-----	12,303,783
1978-----	20,715,602	1983-----	14,475,365
1979-----	16,416,640	1984-----	14,566,511
1980-----	16,898,932	1985-----	13,549,274
1981-----	16,374,900	1986-----	14,014,139

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN		
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	
		669,443	201,639	19,671	393,042	55,091
1011 IRON ORE AND CONCENTRATES-----	520,365	135,294	-----	385,071	-----	-----
2311 APPAREL-----	0	4	-----	-----	-----	-----
2421 LUMBER-----	0	0	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	52	32	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	2,742	58	-----	2,694	-----	-----
2821 PLASTIC MATERIALS-----	80	44	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	5,287	-----	-----	5,277	-----	-----
2920 COKE, PETROLEUM COKE-----	74,762	-----	19,671	-----	55,091	-----
3314 IRON AND STEEL PRIMARY FORMS-----	66,044	66,044	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	41	41	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	28	28	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	20	20	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2	2	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	15	15	-----	-----	-----	-----
3811 INSTN, TIME, PHOTO, OPT COONS-----	6	6	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	2	2	-----	-----	-----	-----

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKESHORE		INTERVAL		LOCAL
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	13,344,696	11,054,915	1,616,441	238,654	424,296	10,390
1011 IRON ORE AND CONCENTRATES-----	9,042,570	9,028,115	-----	18,455	-----	-----

CHICAGO, IL, DISTRICT

INDIANA HARBOUR, IND.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMUNITY	TOTAL	LAKEWIS		INTERNAL		LOCAL
		RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
1121 COAL AND LIGNITE	4,680			4,680		
1411 LIMESTONE	1,681,944	1,681,944				
1494 CEMENT, CEMENT AND PLASTERS	156,467	156,467				
1499 NONMETALLIC MINERALS, NEC	31,187			31,187		
2813 ALCOHOLS	34,957			34,957		
2817 NITROGENOUS CHEM FERTILIZERS	66,827	30,180		36,647		
2871 NITROGENOUS CHEM FERTILIZERS	20,347			20,347		
2874 FERTILIZER AND MATERIALS, NEC	3,079			3,079		
2911 GASOLINE	658,342	7,298	556,959		91,034	3,051
2912 JET FUEL	151,117		148,728		2,389	
2913 KEROSENE	4,279		4,279			
2914 DISTILLATE FUEL OIL	345,646	78,401	266,225			1,020
2915 RESIDUAL FUEL OIL	217,364	55,950	155,095			6,319
2916 LUBRICATING OILS AND OILASES	99,571		32,200		67,371	
2917 SAPHATIC PETROLEUM SOLVENTS	13,636	11,813	2,023			
2918 ASPHALT, TAR, AND PITCHES	271,852		232,727		39,125	
2921 COKE, PETROLEUM COKE	49,093			32,751	16,342	
3312 SLAG	253,558		216,605	8,120	28,833	
3314 IRON AND STEEL PRIMARY FORMS	101,279			81,553	19,726	
3315 IRON AND STEEL SHAPES, EXC SHEET	24,325	1,680		2,850	19,795	
3316 IRON AND STEEL PLATES, SHEETS	23,988				23,988	
3318 FERROALLOYS	11,525			11,525		
3319 IRON AND STEEL PRODUCTS, NEC	14,372				14,372	
3511 MACHINERY, EXCEPT ELECTRICAL	360			360		
4011 IRON AND STEEL SCRAP	87,159	3,067	1,600	7,569	74,923	
4029 WASTE AND SCRAP, NEC	2,972				2,972	
TONS, ALL TRAFFIC	14,014,159					

BURNS WATERWAY HARBOR, IND.

SECTION: INCLUDES: APPROACH CHANNEL, OUTER HARBOR, AND TWO HARBOR ARMS. PROJECT DEPTHS: 30 FEET IN APPROACH CHANNEL, 28 FEET IN OUTER HARBOR, AND 27 FEET IN THE EAST AND WEST HARBOR ARMS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	4,569,677	1982	5,458,420
1978	7,306,481	1983	6,332,235
1979	8,077,647	1984	8,790,770
1980	6,462,020	1985	8,175,641
1981	7,366,655	1986	6,749,674

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN				DOMESTIC			
		OVERSEAS		CANADIAN		LAKEWIS		INTERNAL	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL	6,749,674	70,813	233,744	700,998	117,312	4,701,296	32,833	437,045	415,593
0103 CEMENT	59,096		27,306						31,790
0107 CEMENT	18,464								18,464
0111 MARBLE SHELLS, UNMANUFACTURED	129,100		46,149		28,042				54,909
0111 MARBLE SHELLS, UNMANUFACTURED	11,890								11,890
1011 IRON ORE AND CONCENTRATES	4,766,037			532,884		4,187,824		45,339	
1411 LIMESTONE	500,200					500,200			
1442 SAND, GRAVEL, CRUSHED ROCK	9,035							1,417	7,618
1499 NONMETALLIC MINERALS, NEC	87,593			83,043				4,550	
2022 DAIRY MILK AND CREAM	2,533		2,533						
2029 GRAIN MILL PRODUCTS, NEC	8,873		8,873						
2081 ALCOHOLIC BEVERAGES	93		33		60				
2211 BASIC TEXTILE PRODUCTS	1		1						
2311 APPAREL	2		2						
2431 WOOD, PLYWOOD, WOODED WOOD	7,795							7,795	
2631 PAPER AND PAPERBOARD	2,720							2,720	
2711 PRINTED MATTER	3		3						
2819 BASIC CHEMICALS AND PRDTS, NEC	4,182			1,276				2,906	
2871 NITROGENOUS CHEM FERTILIZERS	170,399	34,680						135,719	
2972 POTASSIUM CHEM FERTILIZERS	74,225			74,225					
2873 PHOSPHATIC CHEM FERTILIZERS	12,953							12,933	
2879 FERTILIZER AND MATERIALS, NEC	19,214							19,214	
2991 MISCELLANEOUS CHEMICAL PROD	8			8					
2914 DISTILLATE FUEL OIL	8,657					8,657			
2915 RESIDUAL FUEL OIL	3,206					3,206			
2918 ASPHALT, TAR, AND PITCHES	7,184							7,184	
2920 COKE, PETROLEUM COKE	112,468				89,260			3,000	20,208
3111 LEATHER AND LEATHER PRODUCTS	4		4						
3251 STRUCTURAL CLAY PRODUCTS	30		30						
3291 CUT STONE AND STONE PRODUCTS	62		62						
3311 PIG IRON	12,169			3,946				8,223	
3312 SLAG	193,627							113,701	9,249
3314 IRON AND STEEL PRIMARY FORMS	91,270	255	15,566					9,026	66,423
3315 IRON, STEEL SHAPES, EXC SHEET	135,666	29,623	1,232					17,860	86,951

Waterborne Commerce of the United States, 1986

BURNS WATERWAY HARBOUR, IND.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		LVLSEAS		CANADIAN		LAKEATSE		INTERNAL	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
3516 IRON AND STEEL PLATES, SHEETS--	44,813	2,056	5,483	-----	-----	772	-----	-----	33,500
3517 IRON AND STEEL PIPE AND TUBE--	3,756	2,442	-----	-----	-----	-----	1,314	-----	-----
3518 FERROALLOYS-----	23,318	-----	-----	5,535	-----	-----	-----	16,583	1,200
3519 IRON AND STEEL PRODUCTS, NEC--	42,150	-----	-----	-----	-----	-----	2,743	-----	39,357
3523 LEAD AND ZINC, UNWORKED-----	276	276	-----	-----	-----	-----	-----	-----	-----
3524 ALUMINUM AND ALLOYS, UNWORKED--	576	576	-----	-----	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	12,811	24	-----	-----	-----	-----	-----	12,747	-----
3511 MACHINERY, EXCEPT ELECTRICAL--	429	709	-----	-----	-----	-----	-----	120	-----
3611 ELECTRICAL MACH AND EQUIP--	6	6	-----	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP--	2	-----	-----	-----	2	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	13	13	-----	-----	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS--	12	12	-----	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	172,297	-----	123,573	-----	-----	-----	-----	2,800	45,924
4112 COMMODITIES, NEC-----	59	4	29	18	8	-----	-----	-----	-----

CHICAGO, IL, DISTRICT

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OTHER HARBOURS AND WATERWAYS

Waterborne Commerce of the United States, 1986
DETROIT, MI, DISTRICT

PRESQUE ISLE HARBOR, MICH.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING AND PROJECT DEPTHS: 30 FEET IN APPROACH AND 28 FEET IN BASIN. NAVIGATION SEASON: MARCH 31 TO JANUARY 21.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	5,215,296	1982-----	3,363,535
1978-----	7,956,886	1983-----	5,129,565
1979-----	6,121,708	1984-----	6,848,430
1980-----	7,881,252	1985-----	7,202,744
1981-----	6,119,940	1986-----	4,701,530

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC	
		CANADIAN	LAKENISE	
		EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	4,701,530	1,731,794	720,297	2,249,439
1011 IRON ORE AND CONCENTRATES-----	3,948,745	1,699,346	-----	2,249,439
1121 COAL AND LIGNITE-----	720,297	-----	720,297	-----
1411 LIMESTONE-----	29,021	29,021	-----	-----
2421 LUMBER-----	1,250	1,250	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	2,177	2,177	-----	-----

MARQUETTE HARBOR, MICH.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING DEPTH: 24 FEET. PROJECT DEPTH: 27 FEET. NAVIGATION SEASON: MAY 10 TO NOVEMBER 22.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	394,317	1982-----	175,615
1978-----	86,870	1983-----	253,951
1979-----	155,617	1984-----	180,473
1980-----	77,300	1985-----	178,318
1981-----	67,716	1986-----	356,823

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISF	LOCAL
		RECEIPTS	
TOTAL-----	356,823	356,740	83
0911 FRESH FISH, EXCEPT SHELLFISH-----	83	-----	83
1121 COAL AND LIGNITE-----	356,740	356,740	-----

ONTONAGON HARBOR, MICH.

SECTION INCLUDED: MOUTH OF ONTONAGON RIVER, MICH. CONTROLLING DEPTH: 12 FEET IN LAKE APPROACH, 9 FEET BETWEEN ENTRANCE PIERS, AND 9.5 FEET IN HARBOR BASIN. PROJECT DEPTH: 17 FEET IN LAKE APPROACH AND 15 FEET BETWEEN ENTRANCE PIERS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	9,372	1982-----	-----
1978-----	22	1983-----	90,882
1979-----	-----	1984-----	85,740
1980-----	4	1985-----	95,035
1981-----	-----	1986-----	265,763

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISF	SHIPMENTS
		RECEIPTS	
TOTAL-----	265,763	260,923	860
1121 COAL AND LIGNITE-----	251,893	251,893	-----
1411 LIMESTONE-----	13,030	13,030	-----
3411 FABRICATED METAL PRODUCTS-----	840	840	840

DETROIT, MI, DISTRICT

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ST. MARYS RIVER, MICH.

SECTION INCLUDES: ENTIRE LENGTH OF ST. MARYS RIVER FROM LAKE SUPERIOR TO LAKE MICHIGAN, INCLUDING AMERICAN PORTS OF SAULT STE. MARIE, RABER, LIME ISLAND, DRUMMOND ISLAND, AND DETOUR, MICHIGAN.

NAME OF CANAL	PROJECT DEPTH	CONTROLLING DEPTH
GROS CAP REEFS-----	30.0	30.0
POINT IROQUOIS SHOAL CHANNEL-----	30.0	29.4
POINT IROQUOIS ANCHORAGE AREA-----	29.0	21.0
BIRCH POINT COURSE-----	28.0-30.0	30.0
BRUSH POINT COURSE-----	28.0-30.0	30.0
POINT LOUISE CHANNEL-----	28.0	28.0
POINT AUX PINS COURSE-----	28.0	28.0
VIDAL SHOALS CHANNEL-----	28.0	28.0

LOCKS AND CANAL (SEE REPORT FOR ST. MARYS FALL CANAL)		
BAYFIELD CHANNEL COURSE 1-----	28.0	28.0
ANCHORAGE AND MANEUVER AREA ANGLE COURSES 1 AND 2-----	28.5	28.5
LITTLE RAPIDS COURSES 2 AND 3-----	27.0	27.0
LAKE NICKLET CHANNEL-----	29.0	29.0
LAKE NICKLET ANCHORAGE-----	28.0	28.0
MIDDLE NEEBISH CHANNEL-----	27.0-28.0	27.0
WEST NEEBISH CHANNEL-----	27.5-28.5	27.5
LAKE MUNUSCONE CHANNEL-----	28.0	28.0
LIME ISLAND CHANNEL-----	29.0	29.0
DETOUR PASSAGE-----	30.0	29.0
PIPE ISLAND COURSE-----	29.0	29.0
HATSON REEF COURSE-----	30.0	30.0
CRAB ISLAND-----	30.0	30.0

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC BY PORTS		THROUGH TRAFFIC		TOTAL	
	TJNS	PASSENGERS	TONS	PASSENGERS	TONS	PASSENGERS
1977-----	2,261,497	564,620	50,060,526	-----	58,322,023	584,620
1978-----	2,736,133	560,493	64,025,435	-----	90,761,568	580,493
1979-----	2,198,618	474,430	58,882,344	-----	91,080,962	474,830
1980-----	1,559,355	568,370	72,750,692	17,852	74,310,047	606,222
1981-----	1,584,584	568,605	74,793,198	-----	76,377,782	688,605
1982-----	917,407	567,601	47,545,216	-----	43,462,623	697,601
1983-----	1,284,698	735,118	51,241,789	-----	52,526,687	735,118
1984-----	1,175,291	757,516	57,150,054	-----	60,325,354	757,316
1985-----	1,240,340	713,095	55,840,925	-----	57,081,265	713,095
1986-----	1,412,841	760,841	49,619,432	-----	51,032,673	760,841

Freight Traffic, 1986

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWIDE	OVERSEAS	CANADIAN	LAKEWIDE
TOTAL-----	5,440,618	59,216	2,264,793	2,906,736	7	85,086	88,820
0133 COFFEE-----	112	112	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	1	1	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	3,138,757	-----	1,535,535	1,603,222	-----	-----	-----
1411 LIMESTONE-----	1,547,293	-----	427,372	1,014,256	-----	82,435	23,230
1499 NONMETALLIC MINERALS, NEC-----	65,559	-----	49,255	36,304	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	2	2	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	26	26	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	13	13	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	5,077	5,077	-----	-----	-----	-----	-----
2421 LUMBER-----	51	51	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	1	1	-----	-----	-----	1	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1	1	-----	-----	-----	1	-----
2819 BASIC CHEMICALS AND PHD, NEC-----	20	20	-----	-----	-----	-----	-----
2911 GASOLINE-----	41,851	-----	-----	8,511	-----	-----	33,340
2914 DISTILLATE FUEL OIL-----	37,347	-----	-----	9,097	-----	-----	28,250
2915 RFSO/TOAL FUEL OIL-----	13,936	-----	13,936	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	81,293	-----	47,959	33,334	-----	-----	-----
2921 LIQUEFIED GASES-----	3,000	-----	3,000	-----	-----	-----	-----
3011 RUBBER AND VINYL PLASTIC PROD-----	11	11	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	1	1	-----	-----	-----	1	-----
3211 GLASS AND GLASS PRODUCTS-----	1	1	-----	-----	-----	1	-----
3241 BUILDING CEMENT-----	426,111	-----	187,685	238,426	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	22	22	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	95	95	-----	-----	-----	-----	-----
3312 SLAG-----	5,586	-----	-----	3,586	-----	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET-----	51,893	51,893	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1,552	1,552	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	94	94	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2,700	89	-----	-----	5	2,606	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	149	147	-----	-----	2	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	62	62	-----	-----	-----	-----	-----
3911 MFG MANUFACTURED PRODUCTS-----	1	-----	-----	-----	1	-----	-----

Waterborne Commerce of the United States, 1986

ST. MARYS RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

EASTBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEMISE	OVERSEAS	CANADIAN	LAKEMISE
TOTAL-----	45,492,055	2,482,871	4,525,017	36,491,199	45	162,591	1,080,332
0102 BARLEY AND RYE-----	384,072	239,958	144,114	-----	-----	-----	-----
0104 OATS-----	13,918	-----	13,918	-----	-----	-----	-----
0107 WHEAT-----	2,452,968	1,960,265	135,289	757,414	-----	-----	-----
0111 SOYBEANS-----	10,636	10,636	-----	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	271,077	271,077	-----	-----	-----	-----	-----
0120 FIELD CROPS, NEC-----	11,087	11,087	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	26,140	26,140	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	30,992,190	21,067	2,473,344	28,097,779	-----	-----	-----
1091 MONFERROUS OXIDES, CONCENT., NEC-----	83,955	83,955	-----	-----	-----	-----	-----
1121 COAL AND LIGHTE-----	8,075,116	-----	-----	8,075,116	-----	-----	-----
1311 CRUDE PETROLEUM-----	6,149	6,149	-----	-----	-----	-----	-----
1411 LIMESTONE-----	1,267,376	-----	29,021	-----	-----	158,023	1,080,332
1442 SAND, GRAVEL, CRUSHED ROCK-----	118,309	-----	118,309	-----	-----	-----	-----
1451 CLAY-----	82,812	2,808	80,000	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	3,088	3,088	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	76,649	76,649	-----	-----	-----	-----	-----
2099 VISCERALLYEUS FOOD PRODUCTS-----	10,770	10,770	-----	-----	-----	-----	-----
2411 LOGS-----	5,018	450	-----	-----	-----	4,568	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	20	20	-----	-----	-----	-----	-----
2421 LUMBER-----	19,855	-----	19,855	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	512	512	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	7,014	-----	7,014	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD., NEC-----	4,207	18	4,170	-----	19	-----	-----
2831 OPIGS-----	7	-----	-----	-----	7	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	16,878	-----	16,878	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	984,774	-----	984,774	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	4	-----	-----	-----	4	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	10,889	-----	10,889	-----	-----	-----	-----
2911 GASOLINE-----	5,421	5,421	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	13,459	-----	13,459	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	166,109	135,662	52,247	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	8	-----	-----	-----	4	-----	-----
3201 BUILDING CEMENT-----	10,050	-----	10,050	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,537	-----	1,537	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	2,177	-----	2,177	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	998	158	840	-----	10	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	12	2	-----	-----	10	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	1	-----	-----	-----	1	-----	-----
4011 IRON AND STEEL SCRAP-----	56,766	30,850	5,936	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	7	7	7	-----	-----	-----	-----

TONS, ALL TRAFFIC, 51,032,673.
TON-MILES, ALL TRAFFIC, 3,036,098,899.ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,
ONTARIO SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDES: AMERICAN AND CANADIAN NAVIGATION CANALS AND LOCKS AT ST. MARYS FALLS, SAULT STE. MARIE, MICH., AND ONTARIO. CONTROLLED DEPTHS: SABIN LOCK 23.1, DAVIS LOCK 23.1, MACARTHUR LOCK 31.0, POE LOCK 32.0 AND 16.8 FEET CANADIAN CANAL. PROJECT DEPTHS SEE ST. MARYS RIVER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	56,302,020	152,082	1982-----	43,624,736	105,186
1978-----	88,634,899	156,076	1983-----	52,797,424	-----
1979-----	90,499,485	113,074	1984-----	61,117,262	-----
1980-----	75,048,983	115,066	1985-----	58,074,991	-----
1981-----	77,022,752	116,532	1986-----	51,407,956	-----

FREIGHT TRAFFIC, 1986

EASTBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEMISE
TOTAL-----	46,416,131	2,482,871	6,592,061	36,491,199
0102 BARLEY AND RYE-----	384,072	239,958	144,114	-----
0104 OATS-----	13,918	-----	13,918	-----
0107 WHEAT-----	2,452,968	1,960,265	135,289	757,414
0111 SOYBEANS-----	10,636	10,636	-----	-----
0119 OILSEEDS, NEC-----	271,077	271,077	-----	-----
0120 FIELD CROPS, NEC-----	11,087	11,087	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	26,140	26,140	-----	-----
1011 IRON ORE AND CONCENTRATES-----	33,075,344	21,067	4,956,498	28,097,779
1091 MONFERROUS OXIDES, CONCENT., NEC-----	83,955	83,955	-----	-----
1121 COAL AND LIGHTE-----	8,075,116	-----	-----	8,075,116
1311 CRUDE PETROLEUM-----	29,021	-----	29,021	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	118,309	-----	118,309	-----
1451 CLAY-----	82,812	2,808	80,000	-----

DETROIT, MI, DISTRICT

ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE,
UNTAUT SHIP CANAL, CANADA (INCLUDED IN ST. MARYS RIVER)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

EASTBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN OVERSEAS	CANADIAN	DOMESTIC LAKEWISE
2022 DRIED MILK AND CREAM	3,048	3,048	-----	-----
2049 GRAIN MILL PRODUCTS, NEC	76,649	76,649	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	10,774	10,774	-----	-----
2411 LOGS	450	450	-----	-----
2413 FIRED WOOD, CHARCOAL, WASTES	20	20	-----	-----
2421 LUMBER	19,655	19,655	-----	-----
2431 VENEER, PLYWOOD, WOODEN WOOD	512	512	-----	-----
2621 STANDARD RESPIRATOR PAPER	7,014	7,014	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC	4,186	18	4,170	-----
2871 INORGANIC CHEM FERTILIZERS	16,474	16,474	-----	-----
2872 POTASSIUM CHEM FERTILIZERS	9,474	9,474	-----	-----
2879 FERTILIZER AND MATERIALS, NEC	10,689	10,689	-----	-----
2911 GASOLINE	5,621	5,621	-----	-----
2914 DISTILLATE FUEL OIL	13,459	13,459	-----	-----
2920 COKE, PETROLEUM COKE	177,685	133,462	43,423	-----
3241 BUILDING CEMENT	10,050	-----	-----	10,050
3319 IRON AND STEEL PRODUCTS, NEC	2,177	2,177	-----	-----
3411 FABRICATED METAL PRODUCTS	908	158	-----	840
3511 MACHINERY, EXCEPT ELECTRICAL	2	2	-----	-----
4011 IRON AND STEEL SCRAP	30,786	30,850	5,934	-----
4112 COMMODITIES, NEC	7	7	-----	-----

EASTBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN OVERSEAS	CANADIAN	DOMESTIC LAKEWISE
TOTAL	4,901,625	59,216	1,971,871	2,960,738
0133 COFFEE	112	112	-----	-----
0141 FRESH AND FROZEN VEGETABLES	1	1	-----	-----
1121 COAL AND LIGNITE	3,138,757	-----	1,535,535	1,603,222
1411 LIMESTONE	1,165,759	-----	137,501	1,028,258
1499 NONMETALLIC MINERALS, NEC	45,559	-----	49,255	36,304
2031 FISH AND SHELLFISH, PREPARED	2	2	-----	-----
2081 ALCOHOLIC BEVERAGES	26	26	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	13	13	-----	-----
2211 BASIC TEXTILE PRODUCTS	5,077	5,077	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC	20	20	-----	-----
2911 GASOLINE	8,511	-----	-----	8,511
2914 DISTILLATE FUEL OIL	9,097	-----	-----	9,097
2915 RESIDUAL FUEL OIL	13,936	-----	13,936	-----
2920 COKE, PETROLEUM COKE	81,203	-----	47,959	33,730
3011 RUBBER AND MISC PLASTIC PROD	11	11	-----	-----
3241 BUILDING CEMENT	426,111	-----	187,685	238,426
3251 STRUCTURAL CLAY PRODUCTS	22	22	-----	-----
3261 CUT STONE AND STONE PRODUCTS	95	95	-----	-----
3312 SLAG	3,586	-----	-----	3,586
3315 IRON, STEEL SHAPES, EXC SHEET	51,893	51,893	-----	-----
3316 IRON AND STEEL PLATES, SHEETS	1,552	1,552	-----	-----
3317 IRON AND STEEL PIPE AND TUBE	94	94	-----	-----
3411 FABRICATED METAL PRODUCTS	49	89	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL	147	147	-----	-----
3611 ELECTRICAL MACH AND EQUIP	62	62	-----	-----
TONS, ALL TRAFFIC	51,407,956	-----	-----	-----

DRUMMOND ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)

SECTION INCLUDED: PRIVATE LOADING DOCK ON ST. MARYS RIVER AT DRUMMOND ISLAND, MICH. CONTROLLING DEPTHS: 30 FEET TO AND FROM LAKE HURON; 27.0 FEET TO AND FROM LAKE SUPERIOR; 27.0 FEET TO LAKE SUPERIOR; 23 FEET AT DOCK. PROJECT DEPTH: SEE ST. MARYS RIVER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	2,131,597	66,367	1982	814,730	205,456
1978	2,578,350	83,263	1983	1,130,294	223,877
1979	2,047,047	66,805	1984	1,090,409	240,302
1980	1,489,376	218,026	1985	1,187,254	209,096
1981	1,470,847	239,218	1986	1,300,619	245,059

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN CANADIAN	DOMESTIC LAKEWISE	
		EXPORTS	RECEIPTS	SHIPMENTS
1411 LIMESTONE	1,300,619	197,057	9,228	1,094,338

Waterborne Commerce of the United States, 1986

THRU REEF PASSAGE, MICH.

SECTION INCLUDED: EAST CHANNEL, 3,000 FEET WIDE AND ABOUT 2 MILES LONG. CONTROLLING AND PROJECT DEPTHS: 25 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TUNS	PASSENGERS	YEAR	TUNS	PASSENGERS
1977	5,374,080	1,105	1982	3,791,447	-----
1978	5,756,477	925	1983	3,732,013	-----
1979	7,691,697	-----	1984	4,712,145	-----
1980	6,020,552	-----	1985	4,600,925	-----
1981	5,194,610	-----	1986	3,940,421	-----

FREIGHT TRAFFIC, 1986

(SHIPS TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			
		FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKFAISE	SOUTHEAST
TOTAL	3,940,421	1,073,611	1,279,435	7,525	1,376,394
0103 CORN	147,052	70,638	72,414	-----	-----
0107 MEAT	27,235	-----	27,235	-----	-----
0111 SOYBEANS	214,237	18,195	28,042	-----	-----
0141 FRESH AND FROZEN VEGETABLES	910	914	-----	-----	-----
1051 ALUMINUM DRES, CONCENTRATES	15	15	-----	-----	-----
1121 COAL AND LIGNITE	375,851	14,961	-----	139,024	219,866
1411 LIMESTONE	21,633	-----	-----	18,474	3,159
1442 SAND, GRAVEL, CRUSHED ROCK	691,397	50,635	373,750	-----	266,712
1451 CLAY	77,525	49,809	27,716	-----	-----
1499 NONMETALLIC MINERALS, NEC	10411	6,411	-----	-----	-----
2011 MEAT, FRESH, CILLED, FROZEN	22	22	-----	-----	-----
2012 MEAT AND PRODUCTS, VFC	29	20	-----	-----	-----
2013 TALLOW, ANIMAL FATS AND OILS	1,135	1,135	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC	53	53	-----	-----	-----
2021 DAIRY PRODUCTS, VFC	726	726	-----	-----	-----
2022 DRIED MILK AND CREAM	10,466	10,466	-----	-----	-----
2034 VEGETABLES AND PREP, VFC	20	20	-----	-----	-----
2041 MEAT FLOUR AND SEMOLINA	35,041	35,041	-----	-----	-----
2042 ANIMAL FEEDS	491	491	-----	-----	-----
2049 GRAY MILL PRODUCTS, NEC	51,255	51,255	-----	-----	-----
2051 ALCOHOLIC BEVERAGES	17	17	-----	-----	-----
2091 VEGETABLE OILS, WAXES, SHORT	19,651	18,651	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	25,496	25,496	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS	1	1	-----	-----	-----
2311 APPAREL	1,004	1,004	-----	-----	-----
2631 PAPER AND PAPERBOARD	272	272	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC	1	1	-----	-----	-----
2711 PRIVATE WATER	47	47	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, VFC	23,697	1,505	-----	22,192	-----
2821 PLASTIC MATERIALS	119	119	-----	-----	-----
2822 SYNTHETIC RUBBER	5	5	-----	-----	-----
2831 DRUGS	15	15	-----	-----	-----
2841 SOAP	33	33	-----	-----	-----
2851 PAINTS	22	22	-----	-----	-----
2861 GLA AND AGED CHEMICALS	17	17	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS	9,303	-----	-----	9,303	-----
2876 INSECTICIDES, DISINFECTANTS	57	57	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD	454	454	-----	-----	-----
2911 GASOLINE	236,595	-----	-----	225,616	10,979
2914 DISTILLATE FUEL OIL	125,180	-----	7,050	7,525	100,159
2915 RESIDUAL FUEL OIL	86,151	-----	-----	-----	46,151
2916 LUBRICATING OILS AND GREASES	1	1	-----	-----	-----
2917 ASPHALT, PETROLEUM SOLVENTS	26	26	-----	-----	-----
2919 ASPHALT, TAR, AND PITCHES	95,101	-----	-----	95,101	-----
2920 COKE, PETROLEUM COKE	981,059	200,458	707,933	-----	72,668
3011 RUBBER AND MISC PLASTIC PROD	28	28	-----	-----	-----
3241 BUILDING CEMENT	516,381	-----	7,121	-----	309,260
3291 MISC NONMETALLIC MINERAL PROD	40	40	-----	-----	-----
3312 SLAG	71,734	-----	-----	71,734	-----
3314 IRON AND STEEL PRIMARY FORMS	15,566	15,566	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET	1,232	1,232	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS	5,591	5,591	-----	-----	-----
3411 FABRICATED METAL PRODUCTS	98	98	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL	8,029	8,029	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP	541	541	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP	152	150	2	-----	-----
3731 SHIPS AND BOATS	233	233	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT	19	19	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS	4	4	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS	6	6	-----	-----	-----
4011 IRON AND STEEL SCRAP	951	943	8	-----	-----
4112 COMMODITIES, NEC	107	107	-----	-----	-----
9099 DEPARTMENT OF DEFENSE AND SCI	335,678	323,473	12,205	-----	-----

DETROIT, MI, DISTRICT

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TRAVERSE CITY HARBOR, MICH.

SECTION INCLUDED: CITY OF TRAVERSE CITY AND THE BAY SHORE TO AND EXCLUDING THE EXISTING FEDERAL PROJECT LOCATED ABOUT 1.25 MILES NORTH OF THE CITY LIMITS. CONTROLLING DEPTHS: 14 AND 10 FEET AT THE EXISTING PROJECT. PROJECT DEPTHS: 14 AND 10 FEET AT THE EXISTING PROJECT. NAVIGATION SEASONS: MARCH 4 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	450,666	1982-----	310,805
1978-----	420,212	1983-----	270,607
1979-----	316,194	1984-----	325,529
1980-----	525,314	1985-----	221,850
1981-----	341,147	1986-----	307,774

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN	DOMESTIC
		CANADIAN	LAKEWISE
		IMPORTS	RECEIPTS
TOTAL-----	307,774	7,525	300,249
1121 COAL AND LIGNITE-----	33,792	-----	33,792
2911 GASOLINE-----	232,103	-----	232,103
2914 DISTILLATE FUEL OIL-----	41,879	7,525	30,354

MANISTEE HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF MANISTEE LAKE, INCLUDING FILER CITY. CONTROLLING DEPTHS: 24 FEET OVER THE ENTRANCE BAR, THROUGH THE OUTER BASIN AND IN THE CHANNEL BETWEEN THE PIERS; THENCE 23 FEET IN THE RIVER CHANNEL, NARROWING TO A MINIMUM WIDTH OF ABOUT 120 TO 140 FEET TO MANISTEE LAKE. PROJECT DEPTHS: 25 FEET IN THE OUTER BASIN AND 23 FEET IN THE RIVER TO MANISTEE LAKE. NAVIGATION SEASONS: MARCH 30 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	181,466	1982-----	214,561
1978-----	183,806	1983-----	224,834
1979-----	117,423	1984-----	262,650
1980-----	185,741	1985-----	263,360
1981-----	152,300	1986-----	285,197

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN	DOMESTIC
		CANADIAN	LAKEWISE
		IMPORTS	RECEIPTS
TOTAL-----	285,197	19,356	265,841
1121 COAL AND LIGNITE-----	224,278	-----	224,278
1411 LIMESTONE-----	41,563	-----	41,563
1499 NONMETALLIC MINERALS, N.E.C.-----	19,356	19,356	-----

LUDINGTON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF PENE MARQUETTE LAKE. CONTROLLING DEPTHS: 23 FEET IN THE OUTER ENTRANCE BAR DECREASING TO 20 FEET THROUGH THE OUTER BASIN AND IN THE CHANNEL TO PENE MARQUETTE LAKE. PROJECT DEPTHS: 18 FEET TO PENE MARQUETTE LAKE. NAVIGATION SEASONS: APRIL 2 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	2,408,483	169,871	1982-----	1,190,794	86,515
1978-----	2,397,920	110,006	1983-----	659,445	87,085
1979-----	2,764,948	135,765	1984-----	1,174,055	98,676
1980-----	2,129,001	136,272	1985-----	1,075,051	85,038
1981-----	1,762,302	85,668	1986-----	720,904	85,109

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN	DOMESTIC
		OVERSEAS	LAKEWISE
		EXPORTS	RECEIPTS
TOTAL-----	720,904	3,309	285,507
0141 FRESH AND FROZEN VEGETABLES-----	5,582	-----	2,484
1121 COAL AND LIGNITE-----	65	-----	65

Waterborne Commerce of the United States, 1986

LUDINGTON HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC	
		OVERSEAS	LAKEWATER	
		EXPORTS	RECEIPTS	SHIPMENTS
1411 LIMESTONE-----	159,745	-----	159,745	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	67,953	-----	6,325	61,628
1451 CLAY-----	109,875	-----	603	109,472
1499 NONMETALLIC MINERALS, NFC-----	12,503	3,309	-----	9,194
2011 MEAT, FRESH, CHILLED, FROZEN-----	251	-----	251	-----
2071 DAIRY PRODUCTS, NFC-----	4,195	-----	4,053	142
2034 VEGETABLES AND PREP, NFC-----	1,616	-----	1,616	-----
2042 ANIMAL FEEDS-----	2,874	-----	2,874	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1,513	-----	1,513	-----
2415 PULPWOOD, LUL-----	2,971	-----	2,371	600
2421 LUMBER-----	3,797	-----	3,139	658
2431 LUMBER, PLYWOOD, WORKED WOOD-----	2,075	-----	1,520	555
2491 WOOD MANUFACTURES, NEC-----	6,419	-----	5,479	940
2611 PULP-----	18,333	-----	6,601	11,732
2621 STANDARD NEWSPRINT PAPER-----	5,763	-----	5,022	141
2631 PAPER AND PAPERBOARD-----	102,077	-----	65,295	36,782
2819 BASIC CHEMICALS AND PHOS, NFC-----	114,651	-----	-----	114,651
2822 SYNTHETIC RUBBER-----	2,507	-----	2,307	-----
2861 GUM AND AGGREGATE CHEMICALS-----	1,818	-----	1,818	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	58	-----	-----	88
2891 MISCELLANEOUS CHEMICAL PROD-----	3,917	-----	-----	3,917
2915 RESIDUAL FUEL OIL-----	2,170	-----	2,170	-----
2918 ASPHALT, TAR, AND PITCHES-----	6,000	-----	6,000	-----
3611 RUBBER AND MISC PLASTIC PROD-----	9,455	-----	-----	9,455
3241 BUILDING CEMENT-----	22,350	-----	-----	22,350
3251 STRUCTURAL CLAY PRODUCTS-----	43,790	-----	389	43,401
3281 CUT STONE AND STONE PRODUCTS-----	555	-----	391	164
3291 MISC NONMETALLIC MINERAL PROD-----	400	-----	-----	400
3411 FABRICATED METAL PRODUCTS-----	218	-----	-----	218
3911 MISC MANUFACTURED PRODUCTS-----	2,343	-----	2,275	70
4112 COMMODITIES, NEC-----	3,235	-----	3,135	100

MUSKEGON HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND ENTIRE AREA OF MUSKEGON LAKE. CONTROLLING DEPTHS: 29.0 FEET THROUGH THE OUTER PORTION OF PROJECT AND 27 FEET IN CHANNEL TO MUSKEGON LAKE. PROJECT DEPTHS: VARYING FROM 29.0 FEET AT HARBOR ENTRANCE TO 28 FEET BETWEEN BREAKWATERS AND 27 FEET IN INNER CHANNEL. NAVIGATION SEASON: APRIL 7 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	1,912,425	-----	1982-----	1,153,356	-----
1978-----	1,952,476	-----	1983-----	932,129	-----
1979-----	1,906,680	-----	1984-----	1,303,734	-----
1980-----	1,235,315	-----	1985-----	773,581	-----
1981-----	1,156,499	-----	1986-----	1,192,780	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		
		OVERSEAS	CANADIAN	LAKEWATER		
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,192,780	8,297	60,125	14,160	1,099,819	10,379
1121 COAL AND LIGNITE-----	889,148	-----	-----	-----	889,148	-----
1411 LIMESTONE-----	8,628	-----	-----	-----	5,057	2,771
1499 NONMETALLIC MINERALS, NFC-----	1,102	-----	1,102	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	37,172	-----	-----	-----	37,172	-----
2911 GASOLINE-----	60,210	-----	-----	-----	54,352	5,058
2918 DISTILLATE FUEL OIL-----	27,780	-----	-----	-----	27,780	-----
2918 ASPHALT, TAR, AND PITCHES-----	1,750	-----	-----	-----	-----	1,750
3241 BUILDING CEMENT-----	85,510	-----	-----	-----	85,510	-----
3311 PTG IRON-----	14,160	-----	-----	14,160	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	8,297	8,297	-----	-----	-----	-----
0011 IRON AND STEEL SCRAP-----	59,023	59,023	59,023	-----	-----	-----

GRAND HAVEN HARBOR AND GRAND RIVER, MICH.

SECTION INCLUDED: ENTIRE HARBOR, INCLUDING FERRYSBURG AND SPRING LAKES AND GRAND RIVER FROM GRAND TRUNK RY, BRIDGE AT FERRYSBURG TO BASS RIVER ABOUT 15 MILES. CONTROLLING DEPTHS: 22 FEET IN ENTRANCE CHANNEL; 21 FEET TO THE MOUTH OF THE SOUTH CHANNEL; 19 FEET TO THE SAG; 20 FEET TO GRAND TRUNK RY, BRIDGE AT FERRYSBURG; 17 FEET IN THE TURNING BASIN; 17 FEET IN CHANNEL TO SPRING LAKE; THENCE 8 FEET TO THE RIVER 17.0 AND 5 FEET TO THE END OF THE PROJECT. PROJECT DEPTHS: 23 FEET IN ENTRANCE CHANNEL; 21 FEET TO FERRYSBURG; 18 FEET IN CHANNEL TO SPRING LAKE; 8 FEET TO MOUTH OF BASS RIVER; MISCELLANEOUS SHOALS IN THE TURNING BASIN. NAVIGATION SEASON: MARCH 1 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	499,510	1982-----	479,311
1978-----	701,717	1983-----	1,056,419
1979-----	1,009,966	1984-----	1,358,439
1980-----	585,202	1985-----	1,455,412
1981-----	430,087	1986-----	1,377,201

DETROIT, MI, DISTRICT

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GRAND HAVEN HARBOR AND GRAND RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWIDE	RECEIPTS
		EXPORTS	IMPORTS	EXPORTS	SHIPMENTS
TOTAL	1,377,201	54,282	171,754	326,705	566,936
1121 COAL AND LIGNITE		116,921	-----	-----	118,921
1411 LIMESTONE		185,024	-----	-----	166,550
1442 SAND, GRAVEL, CRUSHED ROCK		663,816	50,632	31,588	18,474
1451 CLAY		3,650	3,650	-----	16,941
1499 NONMETALLIC MINERALS, NFG		136,956	-----	107,713	238,090
2872 POTASSIC CHEM FERTILIZERS		28,046	-----	28,046	-----
2913 KEROSENE		6,259	-----	6,259	-----
2914 DISTILLATE FUEL OIL		4,447	-----	4,447	-----
3241 BUILDING CEMENT		90,117	-----	-----	94,117
3311 PIG IRON		960	-----	-----	960
3312 SLAG		135,003	-----	-----	135,003

HOLLAND HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL 25 FEET DECHASING TO 21 FEET DEEP AT THE OUTER END OF THE INNER PIERS THENCE A CHANNEL TO AND THROUGH LAKE MACATAWA TO THE WHARVES IN HOLLAND, MICHIGAN, A TURNING BASIN 18 FEET DEEP, A CHANNEL IN BLACK RIVER 21 FEET DEEP AND A SETTLING BASIN ABOVE THE BLACK RIVER CHANNEL TO THE STATE STREET BRIDGE. NAVIGATION SEASONS: MARCH 13 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	377,122	1982	209,365
1978	419,916	1983	353,738
1979	451,492	1984	298,773
1980	263,177	1985	456,506
1981	263,974	1986	419,702

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKEWIDE	RECEIPTS
		EXPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	419,702	21,207	56,647	341,848	-----
1121 COAL AND LIGNITE		183,235	-----	-----	183,235
1411 LIMESTONE		62,401	-----	-----	62,401
1442 SAND, GRAVEL, CRUSHED ROCK		87,045	-----	87,045	-----
3312 SLAG		96,212	-----	-----	96,212
4011 IRON AND STEEL SCRAP		30,809	21,207	9,602	-----

ST. JOSEPH HARBOR, MICH.

SECTION INCLUDED: ENTRANCE CHANNEL AND LOWER PORTION OF ST. JOSEPH RIVER TO AND INCLUDING BENTON HARBOR CANAL, CONTROLLING DEPTHS: 24 FEET AT ENTRANCE; 24 FEET BETWEEN ENTRANCE PIERS AND IN THE RIVER TO THE MOUTH OF THE PAW PAW RIVER; WITH 1 FOOT OF SHOALING ALONG THE CHANNEL LIMITS; 17 FEET IN THE TURNING BASIN AND 18 FEET AT BENTON HARBOR CANAL. PROJECT DEPTHS: 21 FEET AT ENTRANCE, AND IN CHANNEL AND RIVER TO THE MOUTH OF THE PAW PAW RIVER; 18 FEET IN TURNING BASIN AND THE BENTON HARBOR CANAL. NAVIGATION SEASONS: MARCH 7 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	308,441	1982	270,254
1978	520,633	1983	243,348
1979	443,895	1984	330,042
1980	475,889	1985	390,330
1981	429,216	1986	432,818

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	LAKEWIDE
TOTAL	RECEIPTS
1411 LIMESTONE	432,818
2910 ASPHALT, TAR, AND PITCHES	235,774
3241 BUILDING CEMENT	28,000
3271 LIME	154,046
3312 SLAG	1,608
	12,592

Waterborne Commerce of the United States. 1986

416 MAJKEF HANSON, 113.

SECTION INCLUDED: LAKE APPROACH CHANNEL, OUTER HARBOR, MILWAUKEE RIVER TO BUFFALO STREET, LOWER 2 MILES OF MENOMINEE RIVER, LOWER 2 MILES OF KINNICKINIC RIVER AND SOUTH MENOMINEE AND BUD HAW CHANNELS. CONTROLLING AND PROJECT DEPTHS: 30 FEET IN LAKE APPROACH CHANNEL, 28 FEET IN THE ENTRANCE CHANNEL AND THE SOUTH OUTER HARBOR, 21 FEET IN THE NORTH OUTER HARBOR, 27 FEET IN THE KINNICKINIC RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 1.0, THE ICE 21 FEET TO SOUTH KINNICKINIC AVENUE BRIDGE, 27 FEET TO MILWAUKEE RIVER TO THE CHICAGO AND NORTH WESTERN RAILWAY BRIDGE AT MILE 0.21, THE ICE 21 FEET TO EAST BUFFALO STREET BRIDGE, 21 FEET IN MENOMINEE RIVER AND SOUTH MENOMINEE AND BUD HAW CHANNELS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	3,945,382	110,455	1982-----	2,249,035	88,186
1978-----	4,497,949	115,381	1983-----	2,740,575	109,294
1979-----	4,579,800	101,070	1984-----	2,993,065	167,428
1980-----	4,079,506	97,091	1985-----	2,089,684	101,651
1981-----	3,000,454	72,494	1986-----	1,823,143	73,478

FOREIGN TRAFFIC, 1797

(S-1921 2045)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEISLE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	1,823,143	54,654	219,020	445,799	52,469	1,008,888	35,258
3103 CORN	27,426		2,691		25,235		
3107 MEAT	27,333				27,233		
3141 FRESH AND FROZEN VEGETABLES	846		846				
1051 ALUMINUM ORES, CRUCIBLE TATES	1	1					
1121 COAL AND LIGNITE	482,037					482,037	
1411 LIMESTONE	36,326					36,326	
1442 SAND, GRAVEL, CRUSHED ROCK	36,562		3			36,559	
1499 NONMETALLIC MINERALS, NEC	459,577			392,825		66,532	
2014 TALLOW, ANIMAL FATS AND OILS	238		238				
2021 DAIRY PRODUCTS, NEC	726		726				
2022 DRIED MILK AND CREAM	8,051		8,051				
2039 PREP FRUIT AND VEG JUICE, VFC	27	27					
2041 WHEAT FLOUR AND SEMOLINA	30,227						
2049 GRIND MILL PRODUCTS, NEC	23,714		23,714				
2051 ALCOHOLIC BEVERAGES	377	377					
2091 VEGETABLE OILS, MARG, SHORT	11,920		11,920				
2099 MISCELLANEOUS FOOD PRODUCTS	16,894		17	16,897			
2211 BASIC TEXTILE PRODUCTS	5,594						
2311 APPAREL	1,003		1,003				
2511 FURNITURE AND FIXTURES	5	5					
2631 PAPER AND PAPERBOARD	270		270				
2711 PRINTED MATTER	41	1	40				
2811 CRUDE TAR, OIL, GAS PRODUCTS	2,256	1		2,255			
2913 ALCOHOLS	1	1					
2817 BENZENE AND TOLUENE	2,255			2,255			
2819 BASIC CHEMICALS AND PRIM, VFC	390	7	389				
2821 PLASTIC MATERIALS	20		20				
2841 SOAP	35		35				
2851 PAINTS	1	1					
2861 GUM AND MUD CHEMICALS	17		17				
2871 NITROGENOUS CHEM FERTILIZERS	25,111	17,075				8,036	
2891 MISCELLANEOUS CHEMICAL PROD	30		30				
2911 GASOLINE	13,994					6,997	5,997
2914 DISTILLATE FUEL OIL	8,071			8,471			
2915 RESTD JAL FUEL OIL	13,684					13,844	
2919 ASPHALT, TAR, AND PITCHES	28,000						26,000
3011 RUBBER AND MISC PLASTIC PROD	25	3	22				
3241 BUILDING CEMENT	357,757					357,757	
3281 CUT STONE AND STONE PRODUCTS	141	141					
3311 PIG IRON	39,337			39,337			
3314 IRON AND STEEL PRIMARY FORMS	1,069	1,069					
3315 IRON, STEEL SHAPES, EXC SHEET	28,833	28,833					
3316 IRON AND STEEL PLATES, SHEETS	45		45				
3317 IRON AND STEEL PIPE AND TUBE	863	863					
3324 ALUMINUM AND ALLOYS, UNWORKED	8	8					
3411 FABRICATED METAL PRODUCTS	6	6					
3511 MACHINERY, EXCEPT ELECTRICAL	7,673	482	6,930				261
3611 ELECTRICAL MACH AND EQUIP	506	21	487				
3711 MOTOR VEHICLES, PARTS, EQUIP	109	68	41				
3731 SHIPS AND BOATS	273		233				
3791 MISC TRANSPORTATION EQUIPMENT	19		19				
3811 INSTR, TIME, PHOTO, OPT GOODS	1		1				
3911 MISC MANUFACTURED PRODUCTS	70	66	4				
4011 IRON AND STEEL SCRAP	112,734		112,734				
4012 NONFERROUS METAL SCRAP	1,656			1,656			
4012 COMMODITIES, NEC	677	2	875				
4018 WATERWAY IMPROVEMENT MAT	6,440						6,440
9999 DEPARTMENT OF DEFENSE AND SCI	40		40				

DETROIT, MI, DISTRICT

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PORT WASHINGTON HARBOR, WIS.

SECTION INCLUDES: OUTER HARBOR AND INTERIOR BASINS, CONTROLLING AND PROJECT DEPTHS: 21 FEET IN THE ENTRANCE CHANNEL AND OUTER TURNING BASIN; 18 FEET IN INNER BASINS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	686,587	1982	664,273
1978	577,701	1983	631,658
1979	788,645	1984	382,645
1980	873,574	1985	241,281
1981	442,920	1986	293,363

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMUNITY	LAKENWISE RECEIPTS
1121 COAL AND LIGNITE	293,363

SHEBOYGAN HARBOR, WIS.

SECTION INCLUDES: OUTER HARBOR AND LOWER 1.0 MILES OF RIVER. CONTROLLING AND PROJECT DEPTHS: 25 FEET IN ENTRANCE CHANNEL; 21-25 FEET IN THE TURNING BASIN; 21 FEET IN THE RIVER CHANNEL TO MARYLAND AVENUE; 15 FEET TO JEFFERSON AVENUE. NAVIGATION SEASON: 9 APRIL TO 30 DECEMBER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	163,253	1982	148,219
1978	265,079	1983	126,534
1979	313,584	1984	1,257,661
1980	167,576	1985	1,095,005
1981	119,024	1986	920,509

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN CANADIAN	DOMESTIC LAKENWISE
		IMPORTS	RECEIPTS
		SHIPMENTS	
TOTAL	920,509	31,355	406,317
1121 COAL AND LIGNITE	844,139	-----	401,302
1409 NONMETALLIC MINERALS, N.E.C.	31,355	31,355	-----
2519 BASIC CHEMICALS AND PRD, N.E.C.	5,015	5,015	-----

MANITOWOC HARBOR, WIS.

SECTION INCLUDES: OUTER HARBOR AND LOWER 2 MILES OF RIVER. CONTROLLING AND PROJECT DEPTHS: 21 FEET IN THE LAKE APPROACH CHANNEL, THE OUTER HARBOR, AND IN THE RIVER CHANNEL TO THE THIRD RAILWAY BRIDGE.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	739,685	68,673	1982	260,893	176
1978	658,517	34,320	1983	232,986	-----
1979	740,358	65,109	1984	274,549	-----
1980	744,427	69,555	1985	190,593	-----
1981	846,676	66,514	1986	304,382	-----

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMUNITY	TOTAL	LAKENWISE		LOCAL
		RECEIPTS	SHIPMENTS	
TOTAL	304,382	208,737	12,286	83,359
1121 COAL AND LIGNITE	59,975	59,975	-----	-----
1411 LIMESTONE	7,900	2,903	6,997	-----
1402 SAND, GRAVEL, CRUSHED ROCK	4,013	-----	4,013	-----
2520 COKE, PETROLEUM COKE	23,497	23,497	-----	-----
1281 BUILDING CEMENT	122,362	122,362	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET	3,276	-----	3,276	-----
9118 WATERWAY IMPROVEMENT MATS	83,359	-----	-----	83,359

Waterborne Commerce of the United States, 1986

KENAULIE HARBOR, M.I.S.

SECTION INCLUDED: OUTER HARBOR, INNER HARBOR AND NORTH BASTION. CONTROLLING AND PROJECT DEPTHS: 20 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	870,095	50,435	1982	605,157	87,946
1978	456,015	44,100	1983	152,424	69,727
1979	1,802,964	32,639	1984	320,226	75,336
1980	1,120,754	39,565	1985	437,753	85,038
1981	1,273,902	41,066	1986	392,248	85,109

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKESIDE	
		RECEIPTS	SHIPMENTS
TOTAL	392,248	273,740	118,508
0101 FRESH AND FROZEN VEGETABLES	5,542	3,058	2,484
1101 COAL AND LIGNITE	65	65	-----
1411 LIMESTONE	7,402	7,404	-----
1402 SAND, GRAVEL, CRUSHED ROCK	6,745	460	6,325
1451 CLAY	109,875	109,472	403
1499 NONMETALLIC MINERALS, NEC	9,192	9,194	-----
2011 MEAT, FRESH, CHILLED, FROZEN	251	-----	251
2021 DAIRY PRODUCTS, NEC	4,195	142	4,053
2034 VEGETABLES AND PREPS, NEC	1,616	-----	1,616
2042 ANIMAL FEEDS	2,874	-----	2,874
2099 MISCELLANEOUS FOOD PRODUCTS	1,513	-----	1,513
2415 PULPWOOD, LOGS	2,971	600	2,371
2421 LUMBER	3,797	658	3,139
2431 VEVEER, PLYWOOD, WORKERS, AND O	2,075	555	1,520
2491 *000 MANUFACTURES, NEC	6,419	940	5,479
2611 PULP	18,333	11,732	6,601
2621 STANDARD NEWSPRINT PAPER	5,763	141	5,622
2631 PAPER AND PAPERBOARD	102,077	36,782	65,295
2810 BASIC CHEMICALS AND PHOS, NEC	9,817	9,817	-----
2822 SYNTHETIC RUBBER	2,307	2,307	-----
2861 GUM AND ADD CHEMICALS	1,818	-----	1,818
2873 PHOSPHATIC CHEM FERTILIZERS	88	88	-----
2891 MISCELLANEOUS CHEMICAL PROD	3,917	3,917	-----
3011 RUBBER AND MISC PLASTIC PROD	9,455	9,455	-----
3241 BUILDING CEMENT	22,350	22,350	-----
3251 STRUCTURAL CLAY PRODUCTS	43,790	43,401	389
3251 CUT STONE AND STONE PRODUCTS	555	164	391
3291 MISC NONMETALLIC MINERAL PROD	400	400	-----
3312 SLAG	956	-----	956
3315 IRON, STEEL SHAPES, EXC SHEET	250	250	-----
3411 FABRICATED METAL PRODUCTS	218	218	-----
3911 MISC MANUFACTURED PRODUCTS	2,343	70	2,273
4112 COMMODITIES, NEC	3,235	100	3,135

GREEN BAY HARBOR, M.I.S.

SECTION INCLUDED: OUTER CHANNEL, CHANNEL THROUGH THE CITY OF GREEN BAY AND UPPER RIVER CHANNEL TO CITY OF DE PERE. CONTROLLING AND PROJECT DEPTHS: 20 FEET IN OUTER CHANNEL TO GRASSY ISLANDS; 24 FEET IN THE ENTRANCE CHANNEL AND RIVER CHANNEL TO A POINT 1,730 FEET UPSTREAM FROM THE C. & N. A. R. R. BRIDGE; 24 FEET IN THE TURNING BASIN AT THE MOUTH OF THE EAST RIVER; 20 FEET IN THE TURNING BASIN ABOVE THE C. & N. A. R. R. BRIDGE; 18 FEET IN THE UPPER RIVER CHANNEL AND TURNING BASIN AT THE CITY OF DE PERE.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	2,476,716	1982	2,030,832
1978	2,457,924	1983	2,440,974
1979	2,839,326	1984	2,422,674
1980	2,299,001	1985	2,295,721
1981	1,979,865	1986	2,199,701

* PASSENGERS--30,150.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC LAKESIDE	
		OVERSEAS		CANADIAN			
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
TOTAL	2,199,701	94,864	42,081	110,203	7,383	1,945,170	
1011 IRON ORE AND CONCENTRATES	12,676	-----	-----	12,676	-----	-----	
1121 COAL AND LIGNITE	1,430,723	-----	-----	-----	-----	1,430,723	
1411 LIMESTONE	203,204	-----	-----	-----	-----	203,204	
1499 NONMETALLIC MINERALS, NEC	105,836	-----	-----	75,581	-----	30,255	
2010 TALLOW, ANIMAL FATS AND OILS	12,226	-----	12,226	-----	-----	-----	
2022 DRIED MILK AND CREAM	26,642	-----	26,642	-----	-----	-----	
2049 GRAIN MILL PRODUCTS, NEC	1,995	-----	1,995	-----	-----	-----	
2099 MISCELLANEOUS FOOD PRODUCTS	583	-----	583	-----	-----	-----	

DETROIT, MI, DISTRICT

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GREEN RAY HARBOR, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
2611 PULP-----	94,295	93,681	584	-----	-----
2819 BASIC CHEMICALS AND PLASTIC, NEC-----	7,383	-----	-----	7,383	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	88	-----	88	-----	-----
2914 DISTILLATE FUEL OIL-----	21,946	-----	-----	21,946	-----
2918 ASPHALT, TAR, AND PITCHES-----	43,630	-----	-----	-----	43,630
2920 COKE, PETROLEUM COKE-----	15,815	-----	-----	15,815	18,815
3241 BUILDING CEMENT-----	214,345	-----	-----	-----	214,345
3411 FABRICATED METAL PRODUCTS-----	4	4	-----	-----	-----
5511 MACHINERY, EXCEPT ELECTRICAL-----	1,166	1,166	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	15	13	2	-----	-----
4112 COMMODITIES, NEC-----	1	-----	1	-----	-----

STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, MICH.

SECTION INCLUDES: ENTIRE CANAL AND CONNECTING WATERS BETWEEN LAKE MICHIGAN AND GREEN BAY, THROUGH THE CITY OF STURGEON BAY, MICH. CONTROLLING AND PROJECT DEPTHS: 21 FEET IN LAKE MICHIGAN ENTRANCE TO CANAL, 22 FEET IN REVETTED CANAL AND IN CHANNEL THROUGH STURGEON BAY AND 20 FEET IN TURNING BASIN.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	113,645	2,658	1982-----	162,525	2,406
1978-----	144,810	2,274	1983-----	258,455	1,475
1979-----	69,189	1,480	1984-----	102,194	3,204
1980-----	36,801	0,624	1985-----	195,083	4,078
1981-----	42,631	2,290	1986-----	469,644	3,316

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	LAKEWISE	
		RECEIPTS	THROUGH NORTHBOUND
TOTAL-----	469,644	3,982	465,662
1011 IRON ORE AND CONCENTRATES-----	85,935	-----	85,935
1121 COAL AND LIGNITE-----	315,324	-----	315,324
1411 LIMESTONE-----	37,717	-----	37,717
2918 ASPHALT, TAR, AND PITCHES-----	26,686	-----	26,686
3312 SLAG-----	956	956	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,026	3,026	-----

ALPELIA HARBOR, MICH.

SECTION INCLUDES: LOWER 4,000 FEET OF RIVER AND PRIVATE HARBORS NORTH OF MOUTH OF THUNDER BAY RIVER. CONTROLLING DEPTHS: 21 FEET IN THE BAY SECTION; 17 FEET IN RIVER; 15 FEET IN TURNING BASIN. PROJECT DEPTHS: CHANNEL 24 FEET DEEP FROM THAT DEPTH IN THUNDER BAY TO A POINT 2,500 FEET LAKEWARD OF THE LIGHTHOUSE; THENCE 23 FEET IN RIVER WIDENING TO 100-FOOT WIDTH AT A POINT 700 FEET UPSTREAM FROM THE LIGHTHOUSE; THENCE 100 FEET WIDE AND 22 FEET DEEP TO THE SECOND AVE. BRIDGE; THENCE 18.5 FEET DEEP AND 75 FEET WIDE TO THE UPPER LIMITS OF THE PROJECT; A TURNING BASIN 15 FEET DEEP BY 3.7 ACRES AT THE UPPER END OF PROJECT; AND A TURNING BASIN 19 FEET DEEP AT THE RIVER MOUTH. NAVIGATION SEASON: MARCH 15 TO DECEMBER 17.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	3,004,934	1982-----	1,821,190
1978-----	3,203,602	1983-----	2,178,305
1979-----	2,942,149	1984-----	2,423,224
1980-----	2,737,050	1985-----	2,382,346
1981-----	2,170,676	1986-----	2,393,224

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	2,393,224	55	1,987	183,671	265,940
1011 IRON ORE AND CONCENTRATES-----	5,724	-----	-----	5,724	-----
1121 COAL AND LIGNITE-----	202,876	-----	-----	202,876	-----
1411 LIMESTONE-----	142,138	-----	-----	139,133	3,005
1451 CLAY-----	7,620	-----	-----	7,620	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	29,621	-----	-----	29,621	-----
1499 NONMETALLIC MINERALS, NEC-----	44,323	38	-----	-----	44,285
2911 GASOLINE-----	1,987	-----	1,987	-----	-----
32-1 BUILDING CEMENT-----	1,958,918	17	17	7,297	10,050
3511 MACHINERY, EXCEPT ELECTRICAL-----	-----	-----	-----	-----	1,941,571

Waterborne Commerce of the United States, 1986

SAGINAW RIVER, MICH.

SECTION EXCLUDED FROM THE MOUTH OF THE RIVER TO AND INCLUDING SAGINAW, MICHIGAN. CONTROLLING DEPTHS: 27 FEET FROM THE 25 FOOT CONTINUATION IN SAGINAW BAY TO 14 FEET AT THE RIVER MOUTH 4 - 5 FEET MISC. SHOALING ALONG CHANNEL LIMITS; THENCE 24 FEET TO THE PEWEN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE L&N R.R. BRIDGE IN SAGINAW, MICHIGAN; THENCE 14 FEET TO THE HOLLAND STREET BRIDGE; THENCE ABOUT 7 FEET OVER A WIDTH OF 100 FEET UPSTREAM TO GREEN POINT. CONTROLLING DEPTHS IN TURNING HARBOR AREA: ESEXVILLE = 19 AND 24 FEET; AIRPORT = 21 FEET; CARROLLTON = 19 FEET; SIXTH STREET = 20 FEET; HARBOUR AT 19 MILE POINT = 15 FEET. PROJECT DEPTHS: 27 FEET FROM THE DEEPWATER IN SAGINAW BAY; 14 FEET IN THE RIVER MOUTH; 2 TO 3 FEET OF SHOALING ALONG THE CHANNEL LIMITS FROM THE DT & T.R.R. BRIDGE TO MILE 7 IN THE BAY SECTION; THENCE 25 FEET FOR 0.1 MILES; THENCE 25 FEET IN THE PEWEN CENTRAL R.R. BRIDGE; THENCE 22 FEET TO THE C&O R.R. BRIDGE IN SAGINAW; THENCE 16.5 FEET TO THE UPSTREAM LIMIT AT GREEN POINT; 20 AND 25 FEET IN THE ESEXVILLE TURNING HARBOR; 22 FEET IN THE AIRPORT TURNING HARBOR; 20 FEET IN THE CARROLLTON TURNING HARBOR; 20 FEET IN THE SIXTH STREET TURNING HARBOR AND 15 FEET IN THE TURNING HARBOR AT THE 19 MILE POINT. NAVIGATION SEASIDE: MARCH 24 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	3,656,238	1962	1,605,792
1978	3,173,573	1963	2,345,719
1979	4,046,120	1984	2,541,884
1980	3,981,260	1985	3,902,667
1981	2,593,591	1986	3,917,117

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FREIGHT				DOMESTIC LAKEWISE	
		OVERSEAS		CANADIAN			
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
TOTAL	3,917,116	21,047	5,997	280,279	71,021	5,485,466	
2103 CORN	5,960				5,860		
1121 COAL AND LIGNITE	543,412					543,412	
1411 LIMESTONE	2,615,271						
1492 SAND, GRAVEL, CRUSHED ROCK	282,006			39,284	65,161	2,550,110	
1499 OTHER INERT MINERALS, NEC	10,761			18,761		243,522	
2095 FUELS	57						
2211 PLASTIC TEXTILE PRODUCTS	2,159	2,159					
2315 ALCOHOLS	930		930				
2819 BASIC CHEMICALS AND PH.D., NEC	24,315		2,123			22,192	
2841 GLASS	2,940		2,940				
2571 INORGANIC CHEM FERTILIZERS	17,681			8,378		9,303	
2672 POTASSIUM CHEM FERTILIZERS	41,335			41,335			
2679 FERTILIZER AND MATERIALS, NEC	29,710	16,630		10,889			
2911 CEMENT	32,800			21,825		10,979	
2912 JET FUEL	31,855					31,855	
2914 DISTILLATE FUEL OIL	11,910			1,448		10,452	
2915 KEROSENE, FULL JEL	27,175			12,514		14,659	
3241 PORTLAND CEMENT	727,003			125,815		102,068	
3711 MOTOR VEHICLES, PARTS, EQUIP.	12		12				
4112 COMMODITIES, NEC	9		9				

ST. CLAIR RIVER, MICH.

SECTION EXCLUDED FROM LENGTH OF ST. CLAIR RIVER AND BLACK RIVER UP TO WASHINGTON AVENUE IN PORT HURON. CONTROLLING DEPTHS: 27 TO 25 FEET IN ST. CLAIR RIVER AT PORT HURON AND 20 FEET IN BLACK RIVER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC OF PORTS	THROUGH TRAFFIC		TOTAL	
		TONS	PASSENGERS	TONS	PASSENGERS
1977	5,746,025	282,096	77,004,441	82,750,466	262,096
1978	4,845,300	268,779	102,023,236	106,668,536	269,741
1979	4,805,648	281,784	107,845,409	112,691,057	281,784
1980	5,318,169	298,752	83,692,180	89,010,353	298,752
1981	4,446,740	272,715	82,377,416	86,824,156	272,715
1982	3,902,476	196,453	50,706,563	50,689,039	196,453
1983	5,022,252	186,296	55,106,993	60,123,245	186,296
1984	6,642,651	298,449	67,708,065	74,350,714	298,649
1985	6,460,524	223,264	63,057,479	69,918,007	223,264
1986	9,721,250	212,863	55,628,279	65,140,529	212,863

FREIGHT TRAFFIC, 1986

UPBOUND

(SHORT TONS)

COMMUNITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OVERSEAS	CANADIAN	LAKEWISE
TOTAL	15,943,838	1,831,056	6,448,030	6,700,503	7,282	24,499	732,868
5121 FIELD CROPS, NEC	40	40					
5133 COFFEE	112	112					
5141 FRESH AND FROZEN VEGETABLES	27	27					
5161 FOREST PRODUCTS, NEC	12	12					
5211 FRESH FISH, EXCEPT SHELLFISH	5	5					
5211 IRON ORE AND CONCENTRATES	1,595,344	287,236	1,308,104				
5251 ALUMINUM DYES, CONCENTRATES	65,874	68,474					
5261 MANGANESE ORE, CONCENTRATES	9,967	9,867					

DETROIT, MI, DISTRICT

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ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1949--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OVERSEAS	CANADIAN	LAKEWISE
1121 COAL AND LIGNITE	11,050,694	4,177,264	6,162,440				710,990
1311 CRUDE PETROLEUM	7,473	7,473					
1411 LIPSTICK	73,064	46,329	22,000				10,735
1442 SAND, GRAVEL, CHIPPED	10,747	4					10,743
1551 CLAY	163	153					
1429 NONMETALLIC MINERALS, NEC	741,155	34,594	329,986	411,674		15,251	
2015 ANIMAL BY-PRODUCTS, NEC	29	29					
2021 DAIRY PRODUCTS, NEC	69	49					
2031 FISH AND SHELLFISH, PREPARED	11	11					
2034 VEGETABLES AND PLFR, NEC	170	170					
2039 PREP. FRUIT AND VEG. JUICE, NEC	457	452					
2042 ANIMAL FEEDS	36	30					
2049 GRAIN, MILL PRODUCTS, NEC	55	65					
2051 ALCOHOLIC BEVERAGES	1,847	1,609	144		54		
2091 VEGETABLE OILS, KAVAS, SHOOTS	1,519	1,319					
2093 ICE	223	223					
2099 MISCELLANEOUS FOOD PRODUCTS	478	460			18		
2111 TOBACCO MANUFACTURES	26	26					
2211 BASIC TEXTILE PRODUCTS	13,079	13,078	1				
2311 APPAREL	51	51					
2421 CLOTHES	1,836	30	1,806				
2431 VENEER, PLYWOOD, MDF, MDF	16	16					
2491 VINT. MANUFACTURES, NEC	54	53	1				
2511 FURNITURE AND FIXTURES	264	198	6				
2611 FUEL	100,633	93,081					
2631 PAPERS AND PAPERBOARD	766	644	122				
2691 CLOTH AND PAPER PRODUCTS, NEC	17	16	1				
2711 PRINTED MATTER	97	75					62
2811 CRUDE TAR, OIL, GAS PRODUCTS	52,957	45	52,914				
2813 ALCOHOLS	23,369	41	23,308		20		
2817 BEVERAGES AND LIQUORS	75,594	46,814	28,780				
2819 BASIC CHEMICALS AND PLFR, NEC	13,050	13,560	29,411		83		
2821 PLASTIC MATERIALS	574	574					
2831 DRUGS	124	124					
2841 DRAPERY	96	96					
2851 PAINTS	362	362					
2361 GLIM AND MGRD CHEMICALS	87	87					
2571 NITROGENOUS CHEM FERTILIZERS	60,153	51,755	8,378				
2876 INSECTICIDES, DISINFECTANTS	52,212	32,212					
2879 FERTILIZER AND MATERIALS, NEC	40	40					
2891 MISCELLANEOUS CHEMICAL PROD	18,830	15,830					
2911 GASOLINE	175	167	8				
2912 OIL, FUEL	63,291	53,262					
2914 DISTILLATE FUEL OIL	15,294	6,621	8,673				
2915 RESIDUAL FUEL OIL	57,575	57,575					
2916 LUBRICATING OILS AND GREASES	65,771	50,284	26,299				9,188
2917 ASPHALT, PETROLEUM SOLVENTS	48,020	48,020					
2918 ASPHALT, TAR, AND PITCHES	25,929	26,929					
2919 PETROLEUM AND LIQUID PETR, NEC	29,935	29,935					
3011 RUBBER AND MGRD PLASTIC PROD	21	21					
3111 LEATHER AND LEATHER PRODUCTS	926	926					
3211 GLASS AND GLASS PRODUCTS	233	232	1				
3241 BUILDING CEMENT	431	430	1				
3251 STRUCTURAL CLAY PRODUCTS	313,580	60	313,520				
3281 CUT STONE AND STONE PRODUCTS	2,083	2,083					
3291 MISCELLANEOUS MINERAL PROD	579	579					
3311 PIG IRON	158	158					
3312 SLAG	18,106	18,106					
3314 IRON AND STEEL PRIMARY FORMS	40,637	40,637					
3315 IRON, STEEL SHAPES, ETC SHEET	99,591	99,629	62				
3316 IRON AND STEEL PLATES, SHEETS	1,026,686	1,021,567	5,042		17	60	
3317 IRON AND STEEL PIPE AND TUBE	15,681	15,681					
3318 FERRALLOYS	20,013	20,013					
3319 IRON AND STEEL PRODUCTS, NEC	19,154	12,588	5,566				
3321 NONFERROUS METALS, NEC	2,401	2,340	21				
3322 COPPER ALLOYS, LEAD ALLOYS	456	456					
3323 LEAD AND ZINC, LEAD ALLOYS	90	90					
3324 ALUMINUM AND ALLOYS, LEAD ALLOYS	15,777	15,777					
3411 FABRICATED METAL PRODUCTS	10,267	3,184	7,081		2		
3511 MACHINERY, EXCEPT ELECTRICAL	12,184	12,375	2		9		
3511 ELECTRICAL MACH AND EQUIP	17,511	17,293	7			11	
3711 MOTOR VEHICLES, PARTS, EQUIP	1,771	1,761					10
3751 SHIPS AND BOATS	880	866	2			10	
3791 MISCELLANEOUS TRANSPORTATION EQUIPMENT	59	59					
3811 INSTR, TIME, PHOT, OPT, GOGGS	267	267					
3911 MISCELLANEOUS MANUFACTURED PRODUCTS	36	34	2				
4012 NONFERROUS METAL SCRAP	402	396	1			5	
4112 COMMODITIES, NEC	2,503	847	1,656				
	798	269	19				

DOWNBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OVERSEAS	CANADIAN	LAKEWISE
TOTAL	49,405,691	4,004,605	7,459,634	28,984,551	34	36,402	8,918,576
0102 BARLEY AND RYE	384,072	239,958	144,114				

Waterborne Commerce of the United States. 1986

ST. CLAIR RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS			
		OVERSEAS	CANADIAN	LAKEWISSE	FOREIGN	OVERSEAS	CANADIAN	DOMESTIC
					DOMESTIC			OTHER
0103 CORN	152,412	74,638	75,274					
0104 OATS	8,816		5,818					
0107 MEAT	2,694,593	1,406,265	175,914	757,414				
0111 SOYBEANS	224,573	196,851	28,042					
0119 OILSEEDS, NEC	271,077	271,077						
0124 FIELD CROPS, NEC	11,087							
0131 FRESH FRUITS	125					125		
0141 FRESH AND FROZEN VEGETABLES	27,130	27,056					74	
1011 IRON, SHEET, CINCERATES	21,992,256	21,067	2,873,344	19,097,847				
1051 ALUMINUM ORES, CONCENTRATES	15	15						
1091 NONFERROUS METALS, CONCENTRATES	83,955	83,955						
1121 COAL AND LIGNITE	6,115,212			40,096				4,075,116
1311 CRUDE PETROLEUM	11,206		11,206					
1411 LIVESTOCK	9,586,149		1,703,193	7,841,557				435,410
1442 SAND, GRAVEL, CRUSHED ROCK	606,292	50,635	448,801	108,556		300		
1451 CLAY	161,027	52,617	107,720			690		
1492 SHIPPAH, DRY	266					260		
1494 GYPSUM, CRUDE AND PLASTICS	656,074			650,026			48	
1499 NONMETALLIC MINERALS, NEC	168,682	4,411	164,271					
2011 MEAT, FRESH, CHILLED, FROZEN	22	22						
2012 MEAT AND PRODUCTS, NEC	39		20			19		
2014 TALLOW, ANIMAL FATS AND OILS	13,447	13,361					86	
2015 ANIMAL BY-PRODUCTS, NEC	53	53						
2021 DAIRY PRODUCTS, NEC	726		726					
2022 DRIED MILK AND CREAM	40,698	40,698						
2034 VEGETABLES AND PREP, NEC	20		20					
2041 MEAT FLOUR AND SEMOLINA	35,041	35,041						
2042 ANIMAL FEEDS	491	491						
2049 GRAIN MILL PRODUCTS, NEC	129,899	129,899						
2081 ALCOHOLIC BEVERAGES	17	17						
2091 VEGETABLE OILS, MARG, SHORT	16,651	16,651						
2099 MISCELLANEOUS FOOD PRODUCTS	36,853	36,853						
2211 BASIC TEXTILE PRODUCTS	1	1						
2311 APPAREL	1,004	1,000						
2411 LOGS	456	450						
2413 FUEL WOOD, CHARCOAL, WASTES	20	20						
2421 LUMBER	2,090		1,474				616	
2431 VENEER, PLYWOOD, WUNKED WOOD	116						116	
2491 ADDO MANUFACTURES, NEC	48						48	
2611 PULP	609	544					65	
2621 STANDARD NEWSPRINT PAPER	7,010		7,014					
2631 PAPER AND PAPERBOARD	586	272					316	
2691 PULP AND PAPER PRODUCTS, NEC	1	1						
2711 PRIVATE MATTER	47	47						
2813 ALCOHOLS	934	934						
2819 BASIC CHEMICALS AND PROD, NEC	44,476	3,665	7,383				33,430	
2821 PLASTIC MATERIALS	119	119						
2822 SYNTHETIC RUBBER	5	5						
2831 DRUGS	22	22						
2841 SOAP	2,973	2,973						
2851 PAINTS	22	22						
2861 GUM AND WOOD CHEMICALS	17	17						
2871 NITROGENOUS CHEM FERTILIZERS	16,476		16,476					
2872 POTASSIC CHEM FERTILIZERS	781,404		781,404					
2873 PHOSPHATIC CHEM FERTILIZERS	88	88						
2876 INSECTICIDES, DISINFECTANTS	61	61						
2891 MISCELLANEOUS CHEMICAL PROD	454	454						
2911 GASOLINE	73,577		66,580	6,997				
2914 DISTILLATE FUEL OIL	56,120		50,120					
2915 RESIDUAL FUEL OIL	177,171		131,020	38,101				8,050
2916 LUBRICATING OILS AND GREASES	1	1						
2917 VAPHTA, PETROLEUM SOLVENTS	4,790	26	4,764					
2918 ASPHALT, TAR, AND PITCHES	100,455		5,354	95,101				
2920 COKE, PETROLEUM COKE	981,750	334,320	608,096	39,334				
3011 RUBBER AND MISC PLASTIC PROD	48	32	1			15		
3111 LEATHER AND LEATHER PRODUCTS	19		19					
3241 BUILDING CEMENT	1,047,655		7,121	1,040,534				
3251 STRUCTURAL CLAY PRODUCTS	40	40						
3291 MISC NONMETALLIC MINERAL PROD	68,148			68,148				
3319 IRON AND STEEL PRIMARY FORMS	15,566	15,566						
3315 IRON, STEEL SHAPES, EXC SHEET	2,769	1,232	1,537					
3316 IRON AND STEEL PLATES, SHEETS	8,591	6,591						
3319 IRON AND STEEL PRODUCTS, NEC	2,177		2,177					
3321 NONFERROUS METALS, NEC	119		119					
3411 FABRICATED METAL PRODUCTS	1,141	256	6	840			39	
3511 MACHINERY, EXCEPT ELECTRICAL	8,058	8,041	11				6	
3611 ELECTRICAL MACH AND EQUIP	547	544	3					
3711 MOTOR VEHICLES, PARTS, EQUIP	209	150	6				53	
3731 SHIPS AND BOATS	233	233						
3791 MISC TRANSPORTATION EQUIPMENT	19	19						
3811 INSTN, TIME, PHOTO, OPT GOODS	4	4						
3911 MISC MANUFACTURED PRODUCTS	6	6						
4011 IRON AND STEEL SCRAP	372,464	354,323	18,141					
4012 NONFERROUS METAL SCRAP	76					76		
4021 PAPER WASTE AND SCRAP	47					47		
4112 COMMODITIES, NEC	966	951	8			7		
9999 DEPARTMENT OF DEFENSE AND SCI	107	107						

TONS, ALL TRAFFIC, 65,349,529.
TON-MILES, ALL TRAFFIC, 2,166,480,763.

DETROIT, MI, DISTRICT

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PORT MURKIN, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF THE ST. CLAIR RIVER FROM MOUTH OF RIVER TO GRAND TRUNK WESTERN RAILROAD BRIDGE AND NORTH BANKS OF THE BLACK RIVER UP TO WASHINGTON AVENUE IN PORT MURKIN, MICHIGAN. CONTROLLING DEPTHS: FROM LAKE ST. CLAIR TO STAG ISLAND, 27.1 FEET, IN THE STAG ISLAND TO PORT MURKIN CHANNEL AND THE FOOT OF LAKE HURON CHANNEL, 27.3 FEET AND 30 FEET RESPECTIVELY. IN THE BLACK RIVER, 17 FEET, FOR A WIDTH OF 70 FEET, FROM THE MOUTH TO 1,700 FEET UPSTREAM OF THE GRAND TRUNK WESTERN RAILROAD BRIDGE, AND IS FEET FOR A WIDTH OF 50 FEET THROUGH THE SETTLING BASIN TO WASHINGTON AVENUE. PROJECT DEPTHS: IN THE ST. CLAIR RIVER, SLOPES FROM 30 FEET AT MOUTH TO 27.5 FEET AT GRAND TRUNK WESTERN RAILROAD BRIDGE. IN THE BLACK RIVER, 20 FEET FROM THE MOUTH TO THE UPPER END OF THE SETTLING BASIN, ABOUT 2,300 FEET UPSTREAM FROM THE GRAND TRUNK WESTERN RAILROAD BRIDGE.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	325,690	4,500	1982-----	320,493	-----
1978-----	507,097	-----	1983-----	351,463	-----
1979-----	494,465	-----	1984-----	578,704	-----
1980-----	695,640	-----	1985-----	324,843	-----
1981-----	626,426	-----	1986-----	519,010	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		CANADIAN	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS
TOTAL-----	519,010	7,282	34	60	36,402 475,232
0131 FRESH FRUITS-----	125	-----	-----	-----	125-----
0141 FRESH AND FROZEN VEGETABLES-----	74	-----	-----	-----	74-----
1411 LIMESTONE-----	464,484	-----	-----	-----	464,484
1402 SAND, GRAVEL, CRUSHED ROCK-----	11,035	-----	-----	-----	300 10,743
1451 CLAY-----	690	-----	-----	-----	690-----
1492 SULPHUR, DRY-----	260	-----	-----	-----	260-----
1494 GYPSUM, CRUDE AND PLASTERS-----	48	-----	-----	-----	48-----
2012 MEAT AND PRODUCTS, NEC-----	19	-----	19	-----	19-----
2014 TALLOW, ANIMAL FATS AND OILS-----	56	-----	-----	-----	56-----
2081 ALCOHOLIC BEVERAGES-----	54	54	-----	-----	54-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	18	18	-----	-----	18-----
2421 LUMBER-----	616	-----	-----	-----	616-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	116	-----	-----	-----	116-----
2491 WOOD MANUFACTURES, NEC-----	48	-----	-----	48	48-----
2611 PULP-----	7,017	6,952	-----	-----	65-----
2631 PAPER AND PAPERBOARD-----	316	-----	-----	-----	316-----
2711 PRINTED MATTER-----	62	62	-----	-----	62-----
2813 ALCOHOLS-----	20	20	-----	-----	20-----
2819 BASIC CHEMICALS AND PROD, NFC-----	35,513	63	-----	35,030	-----
2911 GASOLINE-----	29	29	-----	-----	29-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	15	-----	15-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	77	17	60	-----	77-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	2	2	-----	-----	2-----
3411 FABRICATED METAL PRODUCTS-----	48	9	-----	39	48-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	17	11	-----	6	17-----
3611 ELECTRICAL MACH AND EQUIP-----	10	10	-----	-----	10-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	63	10	-----	53	63-----
3911 MISC MANUFACTURED PRODUCTS-----	5	5	-----	-----	5-----
4012 NONFERROUS METAL SCRAP-----	76	-----	-----	76	76-----
4024 PAPER WASTE AND SCRAP-----	47	-----	-----	47	47-----
4012 COMMODITIES, NEC-----	7	-----	-----	7	7-----

ST. CLAIR, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT ST. CLAIR, MICH. CONTROLLING DEPTHS: 27.3 FEET. PROJECT DEPTHS: 27.3 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	4,586,105	1982-----	3,258,562
1978-----	3,519,786	1983-----	4,241,500
1979-----	3,286,404	1984-----	5,379,966
1980-----	3,726,267	1985-----	6,176,971
1981-----	3,350,691	1986-----	8,608,164

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	DOMESTIC		LAKENWISE
	RECEIPTS	-----	
1121 COAL AND LIGITE-----	-----	-----	8,608,164

Waterborne Commerce of the United States, 1986

MARINE CITY, MICH. (INCLUDED IN ST. CLAIR RIVER)

SECTION INCLUDED: WEST BANK OF ST. CLAIR RIVER AT MARINE CITY, MICH., 21.5 MILES UPBOUND TO LAKE HURON; 19.2 MILES DOWNBOUND TO LAKE ST. CLAIR, MICH. CONTROLLING DEPTHS: 27 FEET. PROJECT DEPTHS AT LOW WATER DATUM: 27.5 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	250,930	229,704	1982-----	109,841	138,377
1978-----	324,653	193,894	1983-----	163,076	114,507
1979-----	239,200	189,620	1984-----	350,636	111,755
1980-----	281,672	215,934	1985-----	277,747	147,883
1981-----	190,026	177,771	1986-----	381,656	129,253

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	LAKEMISE RECEIPTS
1411 LIMESTONE-----	341,555

CHANNELS IN LAKE ST. CLAIR

SECTION INCLUDED: IMPROVED SHIP CHANNELS CONNECTING ST. CLAIR RIVER AND OTTAWA RIVER ACROSS LAKE ST. CLAIR; ENTRANCE CHANNELS TO MOUTH OF CLINTON RIVER AND THE CANADIAN CHANNEL TO THE MOUTH OF THE THAMES RIVER. CONTROLLING DEPTHS: 27.0 FEET IN THE MAIN CHANNEL AND 2 FEET TO 3 FEET MISC. SHOALING ALONG CHANNEL LIMITS 4 FEET IN CHANNEL TO CLINTON RIVER. PROJECT DEPTHS: 27.5 FEET IN MAIN CHANNEL AND 8 FEET IN CLINTON RIVER CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	77,647,285	4,622	1982-----	50,221,716	-----
1978-----	102,197,402	962	1983-----	54,708,477	-----
1979-----	107,778,762	-----	1984-----	67,819,400	-----
1980-----	83,914,264	-----	1985-----	52,886,910	-----
1981-----	82,294,163	-----	1986-----	55,629,259	-----

FREIGHT TRAFFIC, 1986

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		OVERSEAS	FOREIGN CANADA	DOMESTIC LAKEWISSE
TOTAL-----	15,657,162	1,938,358	6,585,853	7,132,971
0129 FIELD CROPS, NEC-----	40	40	-----	-----
0133 COFFEE-----	112	112	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	27	27	-----	-----
0561 FOREST PRODUCTS, NEC-----	12	12	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	5	5	-----	-----
1011 IRON ORE AND CONCENTRATES-----	1,595,344	287,236	1,308,108	-----
1051 ALUMINUM ORES, CONCENTRATES-----	63,474	58,474	-----	-----
1061 MANGANESE ORES, CONCENTRATES-----	9,467	9,467	-----	-----
1121 COAL AND LIGNITE-----	11,050,694	-----	4,177,264	6,873,430
1411 LIMESTONE-----	79,064	-----	46,329	32,735
1442 SAND, GRAVEL, CRUSHED ROCK-----	10,747	4	-----	19,743
1451 CLAY-----	163	163	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	791,455	34,544	345,237	411,674
2015 ANIMAL BY-PRODUCTS, NEC-----	29	29	29	-----
2021 DAIRY PRODUCTS, NEC-----	69	69	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	11	11	-----	-----
2034 VEGETABLES AND PREP, NEC-----	170	170	-----	-----
2039 PREP, FRUIT AND VEG JUICE, NEC-----	452	452	-----	-----
2042 ANIMAL FEEDS-----	36	36	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	65	65	-----	-----
2061 ALCOHOLIC BEVERAGES-----	1,847	1,703	144	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,319	1,319	-----	-----
2095 ICE-----	273	223	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	478	478	-----	-----
2111 TOBACCO MANUFACTURES-----	26	26	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	13,079	13,074	1	-----
2311 APPAREL-----	51	51	-----	-----
2421 LUMBER-----	1,856	50	1,806	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	16	16	-----	-----
2491 WOOD MANUFACTURES, NEC-----	54	53	1	-----
2511 FURNITURE AND FIXTURES-----	198	198	-----	-----
2611 PULP-----	100,633	100,633	-----	-----
2631 PAPER AND PAPERBOARD-----	766	640	122	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	17	16	1	-----
2711 PRINTED MATER-----	97	47	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1,098	43	1,055	-----
2813 ALCOHOLS-----	61	61	-----	-----
2817 BENZENE AND TOLUENE-----	43,339	-----	14,559	28,780
2819 BASIC CHEMICALS AND PROD, NEC-----	17,527	13,643	3,887	-----
2821 PLASTIC MATERIALS-----	574	574	-----	-----
2831 DRUGS-----	124	124	-----	-----

DETROIT, MI, DISTRICT

CHANNELS IN LAKE ST. CLAIR--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEMISE
2461 STAPLES	96	96		
2551 PAINTS	362	362		
2551 UNL 411 ADJ CHEMICALS	87	87		
2871 VARIOUS CHEM FERTILIZERS	60,133	51,755	6,378	
2872 POTASSIC CHEM FERTILIZERS	32,212	-----	32,212	
2876 INSECTICIDES, DISINFECTANTS	40	40		
2879 FERTILIZER AND MATERIALS, NEC	18,830	18,830		
2891 MISCELLANEOUS CHEMICAL PROD	175	167	8	
2911 GASOLINE	7,046	29	7,017	
2912 JET FUEL	15,294	-----	6,621	8,673
2914 DISTILLATE FUEL OIL	29,724	-----	29,724	
2915 RESIDUAL FUEL OIL	30,483	-----	4,184	26,299
2916 LUBRICATING OILS AND GREASES	48,020	-----	46,020	
2991 PETROLEUM AND COAL TAR, NEC	21	21		
3011 RUBBER AND MISC PLASTIC PROD	926	926		
3111 LEATHER AND LEATHER PRODUCTS	233	232	1	
3211 GLASS AND GLASS PRODUCTS	431	430	1	
3241 BUILDING CEMENT	515,580	60	313,520	
3251 STRUCTURAL CLAY PRODUCTS	2,085	2,083		
3281 CLT STONE AND STONE PRODUCTS	579	579		
3291 MISC NONMETALLIC MINERAL PROD	156	158		
5311 PIG IRON	18,106	-----	18,106	
5312 SLABS	40,637	-----		40,637
5314 IRON AND STEEL PRIMARY FORKS	99,691	99,629	62	
5315 IRON, STEEL SHAPES, EXC SHEET	1,026,666	1,021,580	5,102	
5316 IRON AND STEEL PLATES, SHEETS	15,681	15,681		
5317 IRON AND STEEL PIPE AND TUBE	20,013	20,013		
5318 FERROALLOYS	18,154	12,588	5,566	
5319 IRON AND STEEL PRODUCTS, NEC	2,401	2,360	21	
5321 IRONFERROUS METALS, NEC	456	456		
5322 COPPER ALLOYS, UNWORKED	90	90		
5323 LEAD AND ZINC, UNWORKED	18,777	18,777		
5325 ALUMINUM AND ALLOYS, UNWORKED	10,267	3,166	7,081	
5411 FABRICATED METAL PRODUCTS	12,384	12,362	2	
5511 MACHINERY, EXCEPT ELECTRICAL	17,311	17,304	7	
5611 ELECTRICAL MACH AND EQUIP	1,771	1,771		
5711 MOTOR VEHICLES, PARTS, EQUIP	880	878	2	
5731 SHIPS AND BOATS	59	59		
5791 MISC TRANSPORTATION EQUIPMENT	267	267		
5811 INSTN, TIME, PHOTN, OPT GOODS	36	34	2	
5911 MISC MANUFACTURED PRODUCTS	402	401	1	
9012 MISC FERROUS METAL SCRAP	2,503	847	1,656	
4112 COMMODITIES, NEC	288	269	19	

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEMISE
TOTAL	39,972,107	4,000,639	6,982,917	28,984,551
0102 HAMLET AND RYE	384,072	239,958	144,114	
0103 CORN	152,912	74,638	78,274	
0104 OATS	8,818	-----	6,818	
0107 WHEAT	2,894,593	1,460,245	176,914	757,414
0111 SOYBEANS	226,873	196,831	26,042	
0111 OILSEEDS, NEC	271,077	271,077		
0129 FIELD CROPS, NEC	11,087	11,087		
0141 FRESH AND FROZEN VEGETABLES	27,056	27,056		
1011 IRON ORE AND CONCENTRATES	21,992,258	21,067	2,873,344	19,097,887
1051 ALUMINUM ORES, CONCENTRATES	15	15		
1091 IRONFERROUS ORES, CONCENTRATES, NEC	83,955	83,955		
1121 COAL AND LIGNITE	40,096	-----		40,096
1311 CRUDE PETROLEUM	11,206	-----	11,206	
1411 LIMESTONE	8,249,130	-----	1,247,573	7,041,557
1442 SAND, GRAVEL, CRUSHED ROCK	561,337	50,635	402,146	108,556
1451 CLAY	160,337	52,617	107,720	
1494 GYPSUM, CRUDE AND PLASTERS	650,026	-----		650,026
1499 NONMETALLIC MINERALS, NEC	168,682	6,411	164,271	
2011 MEAT, FRESH, CHILLED, FROZEN	22	22		
2012 MEAT AND PRODUCTS, NEC	39	39		
2014 TALLOW, ANIMAL FATS AND OILS	13,361	13,361		
2015 ANIMAL BY-PRODUCTS, NEC	53	53		
2021 DAIRY PRODUCTS, NEC	726	726		
2022 DRIED MILK AND CREAM	40,698	40,698		
2031 VEGETABLES AND PREP, NEC	20	20		
2041 MEAT FLOUR AND SEMOLINA	35,041	35,041		
2042 ANIMAL FEEDS	491	491		
2049 GRAIN MILL PRODUCTS, NEC	129,899	129,899		
2081 ALCOHOLIC BEVERAGES	17	17		
2091 VEGETABLE OILS, MARG, SHORT	18,651	18,651		
2099 MISCELLANEOUS FOOD PRODUCTS	36,853	36,853		
2211 BASIC TEXTILE PRODUCTS	1	1		
2311 APPAREL	1,004	1,004		
2411 LOGS	450	450		
2413 FUEL WOOD, CHARCOAL, WASTES	20	20		
2421 LUMBER	1,474	-----	1,474	
2611 PULP	544	544		

Waterborne Commerce of the United States, 1986

CHANNELS IN LAKE ST. CLAIR--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

UPBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC		
		FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE
2621 STANDARD NEWSPRINT PAPER	7,014	-----	7,014	-----
2631 PAPER AND PAPERBOARD	272	272	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC	1	1	-----	-----
2711 PRINTED MATTER	67	47	-----	-----
2813 ALCOHOLS	934	934	-----	-----
2819 BASIC CHEMICALS AND PHOS, IFC	42,706	3,665	39,041	-----
2821 PLASTIC MATERIALS	119	119	-----	-----
2822 SYNTHETIC RUBBER	5	5	-----	-----
2831 CRUDE	22	22	-----	-----
2841 STUP	2,973	2,973	-----	-----
2851 PAINTS	22	22	-----	-----
2861 SOL AND WASH CHEMICALS	17	17	-----	-----
2871 INORGANIC CHEM FERTILIZERS	16,478	-----	16,478	-----
2872 POTASSIUM CHEM FERTILIZERS	781,404	-----	781,404	-----
2873 PHOSPHATIC CHEM FERTILIZERS	98	88	-----	-----
2876 INSECTICIDES, DISINFECTANTS	61	61	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD	454	454	-----	-----
2911 GASOLINE	73,577	-----	66,580	6,997
2914 DISTILLATE FUEL OIL	50,120	-----	50,120	-----
2915 RESIDUAL FUEL OILS AND GREASES	169,121	-----	131,020	38,101
2916 LUBRICATING OILS AND GREASES	1	1	-----	-----
2917 SAPPHIRE, PETROLEUM SOLVENTS	4,790	26	4,764	-----
2918 ASPHALT, TAR, WAX PITCHES	100,455	-----	53,354	95,101
2922 COKE, PETROLEUM COKE	941,750	334,320	608,096	39,334
3111 FABRIC AND MISC PLASTIC PROD	48	47	1	-----
3111 LEATHER AND LEATHER PRODUCTS	19	-----	19	-----
3241 BUILDS CEMENT	1,047,655	-----	7,121	1,040,534
3251 STRUCTURAL CLAY PRODUCTS	1	-----	1	-----
3291 MISC NONMETALLIC MINERAL PROD	40	40	-----	-----
3312 SLAG	68,148	-----	-----	68,148
3514 IRON AND STEEL PRIMARY FORMS	15,566	15,566	-----	-----
3515 IRON, STEEL SHAPES, EXC SHEET	2,769	1,232	1,537	-----
3516 IRON AND STEEL PLATES, SHEETS	8,591	8,591	-----	-----
3519 IRON AND STEEL PRODUCTS, NEC	2,177	-----	2,177	-----
3521 NONFERROUS METALS, NEC	119	-----	119	-----
3541 FABRICATED METAL PRODUCTS	1,102	256	6	840
3551 MACHINERY, EXCEPT ELECTRICAL	8,052	8,041	11	-----
3611 ELECTRICAL MACH AND EQUIP	547	544	3	-----
3711 MOTOR VEHICLES, PARTS, EQUIP	156	150	6	-----
3731 SHIPS AND BOATS	233	233	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT	19	19	-----	-----
3811 INSTR, TIME, PHOT, OPT GOOBS	4	4	-----	-----
3911 MISC MANUFACTURED PRODUCTS	6	6	-----	-----
4011 IRON AND STEEL SCRAP	372,464	354,323	18,141	-----
4112 COMMODITIES, NEC	959	951	8	-----
9999 DEPARTMENT OF DEFENSE AND SCI	107	107	-----	-----

TONS, ALL TRAFFIC, 55,629,269,
100-MILES, ALL TRAFFIC, 1,001,326,842.

DETROIT RIVER, MICH.

SECTION INCLUDES ENTIRE LENGTH OF DETROIT RIVER AND ROUGE RIVER TO HEAD OF PROJECT. CONTROLLING DEPTHS: 25 TO 28.5 FEET AND 21 TO 25 FEET, RESPECTIVELY AT 5 TO 7 FEET OF SHOALING ALONG THE CHANNEL LIMITS OF THE LOWER LIMESTONE AND EAST OUTER CHANNEL, AND WITH 2 TO 3 FEET OF SHOALING ALONG THE CENTER LINE THROUGHOUT THE CHANNELS, WITH PROJECT DEPTH IN THE REGULARLY TRAVELED SHIPPING LANES.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TRAFFIC OF PORTS		THROUGH TRAFFIC		TOTAL	
	TONS	PASSENGERS	TONS	PASSENGERS	TONS	PASSENGERS
	OVERSEAS	CANADIAN	LAKEWISE	OVERSEAS	CANADIAN	LAKEWISE
1977	25,106,301	596,072	65,470,682	22	90,576,983	896,090
1978	25,881,508	867,828	87,150,328	-----	113,031,636	667,925
1979	24,995,987	831,860	93,396,049	-----	118,392,029	831,860
1980	19,278,914	484,706	72,793,919	-----	92,072,833	484,708
1981	17,839,139	356,694	72,566,737	-----	90,405,876	356,694
1982	13,176,099	369,388	43,390,094	-----	56,566,193	369,388
1983	10,955,003	879,146	45,805,095	-----	60,760,098	879,146
1984	17,530,626	1,617,966	57,521,043	-----	75,052,369	1,617,966
1985	15,609,067	1,219,480	53,795,219	-----	69,404,286	1,219,480
1986	15,139,865	977,736	46,593,801	-----	61,733,266	977,736

FREIGHT TRAFFIC, 1986

UPBOUND

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKEWISE	OVERSEAS	CANADIAN	LAKEWISE
TOTAL	20,647,710	1,638,338	6,343,345	7,348,895	1,011,550	964,543	3,141,039
0129 FIELD CROPS, NEC	97	80	-----	-----	57	-----	-----
0133 COFFEE	112	112	-----	-----	7	-----	-----
0141 FRESH AND FROZEN VEGETABLES	38	27	-----	-----	7	-----	-----

DETROIT, MI, DISTRICT

41

DETROIT, MI, DISTRICT--CONTINUED

CARGO TRAFFIC, 1966--CONTINUED

UPBOUND--CONTINUED

(SIGHT TONS)

ITEM	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS		
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC
		OVERSEAS	CANADIAN	LAKESHORE	OVERSEAS	CANADIAN	LAKESHORE
3161 ADHESIVES AND SEALANTS, PLASTIC	375	-----	-----	-----	317	58	-----
3191 MISCELLANEOUS PLASTIC	2	-----	-----	-----	2	-----	-----
3841 CHOCOLATE AND ALLIED PRODUCTS	114	-----	-----	-----	83	31	-----
3861 FERROUS METALS	176	12	-----	-----	142	22	-----
3911 FISH, FISHES, EXCEPT SHELLFISH	5	3	-----	-----	-----	-----	-----
3911 FISH, FISHES, EXCEPT SHELLFISH	2,003,120	287,236	1,308,108	-----	370,303	37,373	-----
3911 FISH, FISHES, EXCEPT SHELLFISH	64,475	68,474	-----	-----	1	-----	-----
3961 MANGANESE OXIDE, CRYSTALLITES	24,057	9,467	-----	-----	14,590	-----	-----
3991 MISCELLANEOUS, PLASTIC, ETC.	7	-----	-----	-----	7	-----	-----
3991 MISCELLANEOUS, PLASTIC, ETC.	13,861,479	4,193,313	6,873,430	-----	-----	2,794,756	-----
4141 LITERATURE	101,063	-----	21,999	32,735	46,529	-----	-----
4542 SAND, SILICA, CRUSHED ROCK	48,114	4	585	10,743	34,782	-----	-----
4551 STONE	205	163	-----	-----	81	1	-----
4592 NONMETALLIC MINERALS, ETC.	1,250,568	34,544	345,237	411,674	73	344,553	114,087
4711 LEATHER AND LEATHER PRODUCTS	167	-----	-----	-----	45	119	-----
4712 LEATHER AND LEATHER PRODUCTS	56	-----	-----	-----	10	46	-----
4713 LEATHER AND LEATHER PRODUCTS	185	-----	29	-----	20	136	-----
4721 LEATHER AND LEATHER PRODUCTS	59	69	-----	-----	-----	-----	-----
4731 LEATHER AND LEATHER PRODUCTS	39,592	11	-----	-----	21	-----	39,360
4734 LEATHER AND LEATHER PRODUCTS	937	170	-----	-----	244	523	-----
2039 PAPER, FABRIC AND VELLUM, ETC.	4,197	452	-----	-----	896	2,844	-----
2042 PAPER, FABRIC AND VELLUM, ETC.	387	36	-----	-----	351	-----	-----
2043 PAPER, FABRIC AND VELLUM, ETC.	362	65	-----	-----	220	77	-----
2081 ALUMINUM, IRON, ETC.	4,333	1,703	144	-----	3,543	2,943	-----
2091 VEGETABLE OILS, ANIMAL, PLANT	1,731	1,319	-----	-----	412	-----	-----
2092 VEGETABLE OILS, ANIMAL, PLANT	73	-----	-----	-----	73	-----	-----
2093 VEGETABLE OILS, ANIMAL, PLANT	223	223	-----	-----	-----	-----	-----
2099 MISCELLANEOUS, PLASTIC	2,000	478	-----	-----	1,359	163	-----
2111 PLASTIC, POLY. PLASTIC	26	26	-----	-----	-----	-----	-----
2111 PLASTIC, POLY. PLASTIC	15,613	13,076	1	-----	265	269	-----
2111 PLASTIC, POLY. PLASTIC	110	51	-----	-----	42	17	-----
2141 LEATHER, STAVES, ETC.	22	-----	-----	-----	22	-----	-----
2421 LEATHER	2,501	30	1,806	-----	62	483	-----
2431 VENETIAN PLATES, MINTED GOLD	182	16	-----	-----	98	66	-----
2491 METAL MANUFACTURED, ETC.	130	53	1	-----	51	25	-----
2511 PLASTIC, POLY. PLASTIC	2,071	198	-----	-----	1,560	313	-----
2611 PAPER	105,927	100,333	-----	-----	3,294	-----	-----
2631 FAKE AND PAPERMADE	2,757	644	122	-----	1,562	489	-----
2641 PAPER, PAPER, PAPER, ETC.	462	16	1	-----	254	211	-----
2711 PLASTIC, POLY. PLASTIC	278	87	-----	-----	154	37	-----
2811 CHOCOLATE, MILK, SUGAR, PLANT	1,626	43	1,055	-----	809	121	-----
2813 ALUMINUM	2,724	61	-----	-----	507	2,156	-----
2817 STARCH AND STARCHES, PLANT	43,339	-----	14,559	-----	-----	-----	28,780
2819 AGED, CARMICHAEL AND PLANT	26,386	13,063	3,884	-----	4,698	4,161	-----
2821 PLASTIC, POLY. PLASTIC	2,963	574	-----	-----	1,342	1,017	-----
2822 STARCHES, PLANT	102	-----	-----	-----	100	2	-----
2823 STARCHES, PLANT, PLANT	18	-----	-----	-----	-----	18	-----
2831 STARCHES, PLANT	783	124	-----	-----	285	374	-----
2841 STARCHES, PLANT	438	96	-----	-----	278	64	-----
2851 PAINTS	4,313	362	-----	-----	3,636	315	-----
2861 SOAPS AND WASH CHEMICALS	87	87	-----	-----	-----	-----	-----
2871 LITER, GALLON, CHEM, PLANT, PLANT	65,064	51,755	8,378	-----	-----	4,671	-----
2872 PLASTIC, POLY. PLASTIC	32,212	32,212	-----	-----	566	215	-----
2873 PLASTIC, POLY. PLASTIC	821	40	-----	-----	10,671	37	-----
2874 FERTILIZER, ANIMAL, PLANT	29,538	19,830	-----	-----	2,265	2,022	-----
2891 MISCELLANEOUS, PLANT, PLANT	4,462	167	9	-----	-----	9,943	-----
2911 CHOCOLATE, MILK, SUGAR, PLANT	16,989	29	7,017	-----	-----	-----	-----
2912 CHOCOLATE, MILK, SUGAR, PLANT	15,294	-----	-----	8,673	-----	6,621	-----
2914 DISTILLATE, PLANT	32,182	-----	20,153	-----	-----	11,929	-----
2915 DISTILLATE, PLANT	63,196	-----	4,184	11,640	5,606	27,107	14,659
2916 DISTILLATE, PLANT	34,806	-----	29,400	-----	7	19,439	-----
2917 DISTILLATE, PLANT	23	-----	-----	-----	23	-----	-----
2931 PLASTIC, POLY. PLASTIC	21	-----	-----	-----	11	20	-----
3011 PLASTIC, POLY. PLASTIC	4,074	929	-----	-----	2,647	501	-----
3111 LEATHER AND LEATHER PRODUCTS	406	232	1	-----	128	45	-----
3211 LEATHER AND LEATHER PRODUCTS	1,496	430	1	-----	521	544	-----
3251 PLASTIC, POLY. PLASTIC	336,851	60	313,520	-----	19,978	81	3,285
3251 PLASTIC, POLY. PLASTIC	6,597	2,083	-----	-----	2,505	2,009	-----
3281 CLOTHING AND LEATHER, PLANT	2,702	579	-----	-----	1,138	985	-----
3291 METAL, METALLIC, PLANT, PLANT	443	158	-----	-----	474	211	-----
3311 PLASTIC, POLY. PLASTIC	18,106	-----	18,106	-----	-----	-----	-----
3312 IRON, STEEL, METAL, PLANT	128,454	-----	-----	-----	20,095	108,359	-----
3314 IRON, STEEL, METAL, PLANT	201,460	99,629	62	-----	101,773	-----	-----
3315 IRON, STEEL, METAL, PLANT	1,814,539	1,021,584	5,102	-----	766,537	21,326	-----
3316 IRON, STEEL, METAL, PLANT	15,669	15,681	-----	-----	8	-----	-----
3317 IRON, STEEL, METAL, PLANT	27,845	20,013	-----	-----	7,820	12	-----
3318 IRON, STEEL, METAL, PLANT	26,009	12,588	5,566	-----	6,957	898	-----
3319 IRON, STEEL, METAL, PLANT	6,170	2,380	21	-----	1,401	1,668	-----
3321 IRON, STEEL, METAL, PLANT	2,446	456	-----	-----	758	1,232	-----
3322 COPPER, ALUMINUM, NICKEL	999	90	-----	-----	656	253	-----
3323 LEAD, AND, ZINC, AND, NICKEL	21,900	18,777	-----	-----	2,273	350	-----
3324 ALUMINUM AND, NICKEL, NICKEL	14,138	3,186	7,081	-----	3,126	745	-----
3411 FABRICATED METAL, PLANT	21,068	12,382	2	-----	3,936	4,769	-----
3511 MACHINERY, ELECTRIC, ELECTRICAL	42,929	17,304	7	-----	20,895	4,723	-----
3611 ELECTRICAL MACHINERY, EQUIP.	3,918	1,771	-----	-----	1,502	645	-----
3711 MOTOR VEHICLES, PARTS, EQUIP.	11,449	678	2	-----	3,819	7,250	-----
3731 SHIPS AND SHIPS, PARTS	151	59	-----	-----	84	8	-----
3791 MISCELLANEOUS EQUIPMENT	417	267	2	-----	148	2	-----
3811 METER, TIME, PLATE, SET, SIGHT	676	34	2	-----	322	318	-----
3911 MISCELLANEOUS, PLANT, PLANT	425	401	1	-----	438	83	-----
4011 IRON AND STEEL, SCRAP	595	-----	-----	-----	459	136	-----
4012 NONFERROUS METAL, SCRAP	2,568	847	1,656	-----	43	22	-----
4112 COMMODITIES, NEC	902	269	19	-----	396	218	-----

Waterborne Commerce of the United States, 1986

DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

CONTINUATION

(SHORT TONS)

COMMUNITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKESHORE	OVERSEAS	CANADIAN	LAKESHORE	OTHER
TOTAL-----	41,085,550	4,004,639	6,731,225	20,320,959	701,958	330,035	8,947,291	5,451
7102 BARLEY AND RYE-----	384,072	234,958	144,114	-----	-----	-----	-----	-----
7103 CORN-----	155,193	74,639	76,274	-----	2,120	161	-----	-----
7104 OATS-----	6,818	-----	5,618	-----	-----	-----	-----	-----
7107 WHEAT-----	2,694,593	1,960,265	176,914	757,414	-----	-----	-----	-----
7111 SOYBEANS-----	224,951	196,431	26,042	-----	78	-----	-----	-----
7119 OILSEEDS, ETC-----	271,077	271,077	-----	-----	13	-----	-----	-----
7129 FIELD CROPS, ETC-----	11,106	11,087	-----	-----	2,736	729	-----	-----
7141 FRESH AND FROZEN VEGETABLES-----	30,521	27,056	-----	-----	16	-----	-----	-----
7161 ANIMALS AND PRODUCTS, NEC-----	16	-----	-----	-----	-----	4,849,478	-----	-----
7171 IRON ORE AND CONCENTRATES-----	21,992,256	21,067	2,873,344	14,228,369	-----	-----	-----	-----
7191 ALUMINUM ORE, CONCENTRATES-----	15	15	-----	-----	-----	-----	-----	-----
7191 NONFERROUS ORE, CONCENTRATES, NEC-----	83,955	83,955	-----	-----	-----	-----	-----	-----
7121 COAL AND Lignite-----	46,090	-----	40,096	-----	-----	-----	-----	-----
7131 CRUDE PETROLEUM-----	11,206	-----	4,997	-----	2,209	-----	-----	-----
7141 LIMESTONE-----	8,289,130	-----	1,247,573	4,161,701	-----	-----	2,849,856	-----
7142 SAND, GRAVEL, CRUSHED ROCK-----	561,337	50,635	402,146	108,556	-----	-----	-----	-----
7145 CLAY-----	160,573	52,617	107,720	-----	198	38	-----	-----
7194 GYPSUM, CRUDE AND PLASTER-----	650,646	-----	349,817	20	-----	500,209	-----	-----
7199 NONMETALLIC MINERALS, ETC-----	168,682	4,911	34,171	-----	-----	150,100	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	42	22	-----	20	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	39	39	-----	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND JELLS-----	33,921	13,361	-----	-----	20,540	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	2,115	53	-----	-----	1,665	395	-----	-----
2021 DAIRY PRODUCTS, NEC-----	726	726	-----	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	40,690	40,698	-----	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	29	20	-----	-----	-----	-----	-----	-----
2041 MEAT FLUID AND SEMIOLI-----	35,041	35,041	-----	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	510	491	-----	19	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	130,081	129,894	-----	142	-----	-----	-----	-----
2061 SUGAR-----	2,750	-----	2,750	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	75	17	-----	48	10	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	160,551	18,651	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	36,879	36,853	-----	26	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	34	1	-----	31	2	-----	-----	-----
2311 APPAREL-----	1,004	1,004	-----	-----	-----	-----	-----	-----
2411 LOGS-----	1,494	450	-----	1,044	-----	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	20	20	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	2,230	-----	1,985	222	23	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,967	-----	-----	1,839	128	-----	-----	-----
2611 PULP-----	544	544	-----	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	7,014	-----	7,014	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	543	272	-----	70	201	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	65	1	-----	64	-----	-----	-----	-----
2711 PRINTED MATTER-----	198	47	-----	16	133	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	16	-----	-----	10	-----	-----	-----	-----
2813 ALCOHOLS-----	935	934	-----	1	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	43,292	3,665	39,041	539	47	-----	-----	-----
2821 PLASTIC MATERIALS-----	1,175	119	-----	1,005	51	-----	-----	-----
2822 SYNTHETIC PLURALS-----	170	5	-----	161	4	-----	-----	-----
2831 DOPGS-----	48	22	-----	26	-----	-----	-----	-----
2841 SOAP-----	3,646	2,973	-----	660	13	-----	-----	-----
2851 PAINTS-----	22	27	-----	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	17	17	-----	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	16,478	-----	16,478	-----	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	781,404	-----	742,394	-----	39,010	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	46	88	-----	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	439	61	-----	268	110	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	22	-----	-----	22	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	799	454	-----	304	41	-----	-----	-----
2911 GASOLINE-----	116,047	-----	53,675	6,997	12,905	42,870	-----	-----
2914 DISTILLATE FUEL OIL-----	72,928	-----	41,075	-----	11,802	20,051	-----	-----
2915 RESIDUAL FUEL OIL-----	185,255	-----	85,452	-----	46,232	53,551	-----	-----
2916 LUBRICATING OILS AND GREASES-----	10	1	-----	8	1	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	4,790	26	4,764	-----	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	344,255	-----	54,354	7,753	15,019	292,676	3,451	-----
2920 COKE, PETROLEUM COKE-----	334,320	599,672	39,334	9,536	47,256	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	326	-----	-----	-----	326	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	10	-----	-----	10	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	213	47	-----	111	55	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	23	-----	-----	4	19	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	117	-----	-----	108	9	-----	-----	-----
3201 BUILDING CEMENT-----	1,047,655	-----	7,121	600,922	-----	-----	459,612	-----
3251 STRUCTURAL CLAY PRODUCTS-----	1	-----	-----	-----	1	-----	-----	-----
3291 CUT STONE AND STONE PRODUCTS-----	42	-----	-----	-----	21	21	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	46	40	-----	-----	2	4	-----	-----
3312 SLAG-----	68,148	-----	-----	-----	-----	68,148	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	15,566	15,564	-----	14	1,537	-----	-----	-----
3315 IRON, STEEL SHAPES, ETC SHEET-----	2,783	1,232	-----	-----	418	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	17,531	8,591	-----	8,940	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	2,191	-----	2,177	2	12	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	148	-----	-----	20	128	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	33	-----	-----	35	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	3	-----	-----	-----	3	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	22	-----	-----	22	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1,299	256	-----	167	36	840	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	9,289	8,041	-----	464	784	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	792	544	-----	191	57	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	737	150	2	458	127	-----	-----	-----
3731 SHIPS AND BOATS-----	242	233	-----	2	7	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	53	19	-----	28	6	-----	-----	-----

DETROIT, MI, DISTRICT

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DETROIT RIVER, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOWNBOUND--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	THROUGH TRAFFIC			RECEIPTS AND SHIPMENTS			
		FOREIGN		DOMESTIC	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKENISE	OVERSEAS	CANADIAN	LAKENISE	OTHER
3811 INSTN, TIME, PHOT, BPT, GNDNS	1,126	8	-----	-----	979	143	-----	-----
3911 VISC MANUFACTURED PRODUCTS	13	A	-----	-----	7	-----	-----	-----
4011 IRON AND STEEL SCRAP	1,058,300	354,523	15,141	-----	685,876	-----	-----	-----
4012 NOVFERROUS METAL SCRAP	374	-----	-----	-----	313	21	-----	-----
4022 TEXTILE WASTE, SCRAP, SNEEP	27	-----	-----	-----	17	10	-----	-----
4112 EDMMUNITIEST, NEC	1,291	951	11	-----	222	107	-----	-----
9999 DEPART-ENT OF DEFENSE AND SPI	107	107	-----	-----	-----	-----	-----	-----
TOTAL, ALL TRAFFIC	61,733,266	-----	-----	-----	-----	-----	-----	-----
TOTAL, ALL TRAFFIC	1,626,089,526	-----	-----	-----	-----	-----	-----	-----

DETROIT HARBOR, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION I INCLUDED: J.S. HARBOR OF DETROIT RIVER FROM LAKE ST. CLAIR TO WESTERN EXTREME OF ZUG ISLAND. CONTROLLING DEPTHS: CHANNEL NORTH OF BELLE ISLE 21 FEET, REMAINDER OF RIVER 25-29.5 FEET. PROJECT DEPTHS: 29.5 FEET EXCEPT CHANNEL NORTH OF BELLE ISLE, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	7,656,870	696,070	1982	4,322,608	369,388
1978	9,005,915	866,566	1983	5,015,656	879,146
1979	8,316,331	831,860	1984	5,530,227	1,448,992
1980	5,894,627	484,708	1985	5,040,518	1,047,594
1981	5,143,155	356,694	1986	5,083,799	977,736

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKENISE	LOCAL
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	
TOTAL	5,063,799	462,091	207,618	379,348	80,833	3,950,458	3,451
0103 CORN	2,281	-----	2,120	-----	161	-----	-----
0111 SOYBEANS	78	-----	78	-----	-----	-----	-----
0129 FIELD CROPS, NEC	57	57	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES	3,472	7	2,736	-----	729	-----	-----
0161 ANIMALS AND PRODUCTS, NEC	391	317	16	58	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS	2	2	-----	-----	-----	-----	-----
0241 CRUDE, RUBBER AND ALLIED GUMS	105	74	-----	31	-----	-----	-----
0261 FOREST PRODUCTS, NEC	142	120	-----	22	-----	-----	-----
1011 IRON ORE AND CONCENTRATES	1,786,249	-----	96,697	-----	1,699,552	-----	-----
1051 ALUMINUM ORES, CONCENTRATES	1	1	-----	-----	-----	-----	-----
1061 MANGANESE ORES, CONCENTRATES	14,590	14,590	-----	-----	-----	-----	-----
1091 NOVFERROUS ORES, CONCENTRATES, NEC	7	-----	7	-----	-----	-----	-----
1121 COAL AND LIGNITE	1,263,380	-----	-----	-----	1,263,380	-----	-----
1311 CRUDE PETROLEUM	2,209	-----	2,209	-----	-----	-----	-----
1411 LIMESTONE	493,171	-----	-----	-----	24,541	468,630	-----
1442 SAND, GRAVEL, CRUSHED ROCK	284	-----	284	-----	-----	-----	-----
1451 CLAY	318	81	198	1	38	-----	-----
1499 NONMETALLIC MINERALS, NEC	146,068	73	-----	146,015	-----	-----	-----
1911 DRUGS AND ACCESSORIES	166	48	-----	118	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN	20	-----	20	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC	56	10	-----	46	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS	20,560	20,560	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC	2,195	20	1,644	136	395	-----	-----
2034 VEGETABLES AND PFRP, NEC	767	244	-----	523	-----	-----	-----
2039 PFRP, FRUIT AND VEG JUICE, NEC	5,699	896	-----	2,803	-----	-----	-----
2049 GRAIN, MILL PRODUCTS, NEC	252	233	19	-----	-----	-----	-----
2051 ALCOHOLIC BEVERAGES	468	209	182	77	-----	-----	-----
2071 VEGETABLE OILS, MARG, SHORT	5,377	2,376	48	2,943	10	-----	-----
2092 ANIMAL OILS AND FATS, NEC	412	412	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS	73	73	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS	1,174	985	26	163	-----	-----	-----
2211 APPAREL	541	262	31	246	2	-----	-----
2411 LOGS	56	39	-----	17	-----	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS	1,044	-----	1,044	-----	-----	-----	-----
2421 LUMBER	22	22	-----	-----	-----	-----	-----
2431 WEEPS, PLYWOOD, WORKED WOOD	746	62	178	883	23	-----	-----
2491 WOOD MANUFACTURES, NEC	2,069	98	1,775	68	128	-----	-----
2511 FURNITURE AND FIXTURES	76	51	-----	25	-----	-----	-----
2611 PULP	1,833	1,526	-----	307	-----	-----	-----
2631 PAPER AND PAPERBOARD	3,294	3,294	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC	2,107	1,348	70	488	201	-----	-----
2711 PRINTED MATTER	528	253	64	211	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS	337	149	18	37	133	-----	-----
2812 DYES, PIGMENT, TANNING MATS	510	389	-----	121	-----	-----	-----
2813 ALCOHOLS	10	-----	10	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC	2,664	507	1	2,156	-----	-----	-----
2821 PLASTIC MATERIALS	8,849	4,128	539	4,135	47	-----	-----
2822 SYNTHETIC RUBBER	3,301	1,238	1,005	1,007	51	-----	-----
2823 SYNTHETIC ("MAN-MADE") FIBERS	261	94	161	2	8	-----	-----
2831 DRUGS	18	-----	-----	18	-----	-----	-----
	592	192	26	374	-----	-----	-----

Waterborne Commerce of the United States, 1986

DETROIT HARBOUR, MICH. (INCLUDED IN PORT OF DETROIT) --CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKESHORE	LOCAL
		IMPORTS	EXPORTS	IMPORTS	EXPORTS		
2841 SOAP-----	255	259	636	47	13		
2851 PAINTS-----	3,960	3,545		315			
2871 NITROGENOUS CHEM FERTILIZERS-----	4,871			4,871			
2872 POTASSIUM CHEM FERTILIZERS-----	17,579			17,579			
2876 INSECTICIDES, DISINFECTANTS-----	1,138	545	268	215	110		
2879 FERTILIZER AND MATERIALS, NEC-----	178	119	22	37			
2891 MISCELLANEOUS CHEMICAL PROD-----	4,444	2,147	304	1,952	41		
2911 GASOLINE-----	6,454			6,454			
2914 DISTILLATE FUEL OIL-----	11,493			11,403	90		
2915 RESIDUAL FUEL OIL-----	66,028	5,606		27,121		33,301	
2916 LUBRICATING OILS AND GREASES-----	8,162			8			
2918 ASPHALT, TAR, AND PITCHES-----	13,676	23		619	7,335		
2920 COKE, PETROLEUM COKE-----	56,792		9,536	8,424	38,832	3,802	3,451
2951 ASPHALT BUILDING MATERIALS-----	163				163		
2991 PETROLEUM AND COAL PROD, NEC-----	41	11	10	20			
3011 RUBBER AND MISC PLASTIC PROD-----	2,546	1,886	111	495	50		
3111 LEATHER AND LEATHER PRODUCTS-----	157	119	4	44			
3211 GLASS AND GLASS PRODUCTS-----	1,025	434	104	478	9		
3241 BUILDING CEMENT-----	462,883	19,475		8		442,897	
3251 STRUCTURAL CLAY PRODUCTS-----	4,179	2,190		1,999			
3281 CUT STONE AND STONE PRODUCTS-----	2,144	1,117	21	945	21		
3291 MISC NONMETALLIC MINERAL PROD-----	536	431	2	199	4		
3312 SLAG-----	58,056					38,056	
3314 IRON AND STEEL PRIMARY FORMS-----	5,155	5,185					
3315 IRON, STEEL SHAPES, EXC SHEET-----	374,724	353,459	14	21,251			
3316 IRON AND STEEL PLATES, SHEETS-----	2,155	3	2,152				
3317 IRON AND STEEL PIPE AND TUBE-----	4,970	4,544	418	12			
3318 FERROALLOYS-----	2,343	1,445		898			
3319 IRON AND STEEL PRODUCTS, NEC-----	3,446	1,604	2	1,788	12		
3321 NOFERROUS METALS, NEC-----	1,805	738	20	1,036	9		
3322 COPPER ALLOYS, UNWORKED-----	887	653	33	201			
3323 LEAD AND ZINC, UNWORKED-----	2,626	2,273		350	3		
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3,578	2,631	22	725			
3411 FABRICATED METAL PRODUCTS-----	9,954	3,440	165	4,570	30	840	
3511 MACHINERY, EXCEPT ELECTRICAL-----	12,426	6,541	440	4,672	773		
3611 ELECTRICAL MACH AND EQUIP-----	2,094	1,204	191	645	54		
3711 MOTOR VEHICLES, PARTS, EQUIP-----	11,135	3,463	447	7,102	123		
3731 SHIPS AND BOATS-----	90	73	2	8	7		
3791 MISC TRANSPORTATION EQUIPMENT-----	166	148	10	2	6		
3811 INSTK, TIME, PHOTO, OPT GOODS-----	1,733	296	979	315	103		
3911 MISC MANUFACTURED PRODUCTS-----	503	413	7	85			
4011 IRON AND STEEL SCRAP-----	159,160	454	158,565	136			
4012 NOFERROUS METAL SCRAP-----	399	43	313	22	21		
4022 TEXTILE WASTE, SCRAP, SWEEP-----	27		17		10		
4112 COMMODITIES, NEC-----	895	548	222	218	107		

ROUGE RIVER, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: FROM THE MOUTH OF THE SHORT CUT CANAL TO THE FORD MOTOR COMPANY. CONTROLLING DEPTHS: 20 FEET FOR A MINIMUM WIDTH OF 100 FEET FROM THE MOUTH OF THE SHORT CUT TO DIX AVENUE BRIDGE, WITH THE EXCEPTION OF SOME SHALLOW AREAS, AND 20 FEET IN THE TURNING BASIN, EXCEPT NEAR THE SHORE. PROJECT DEPTHS: 21.0 AND 25 FEET FROM MOUTH OF SHORT CUT CANAL TO A POINT 200 FEET DOWNSTREAM OF THE JEFFERSON AVENUE BRIDGE; THENCE 21 FEET TO AND INCLUDING THE TURNING BASIN IN MAIN CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	12,055,827	1982-----	
1978-----	11,494,251	1983-----	
1979-----	12,492,054	1984-----	
1980-----	10,277,336	1985-----	
1981-----	9,633,840	1986-----	

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKESHORE	SHIPMENTS
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	
TOTAL-----	8,190,622	260,276	415,360	697,163	78,712	6,410,806	304,854
0129 FIELD CROPS, NEC-----	13	9	13				
0861 CRUDE RUBBER AND ALLIED GUMS-----	9	9					
0861 FOREST PRODUCTS, NEC-----	22	22					
1011 IRON ORE AND CONCENTRATES-----	2,392,298			283,606		2,104,692	
1121 COAL AND LIGNITE-----	1,417,941					1,417,941	
1411 LIMESTONE-----	2,283,751				21,788	2,261,963	
1442 SAND, GRAVEL, CRUSHED ROCK-----	34,498			34,498			
1494 GYPSUM, CRUDE AND PLASTERS-----	300,229		20			300,209	
1499 NONMETALLIC MINERALS, NEC-----	426,919			325,634		101,281	
2015 ANIMAL BY-PRODUCTS, NEC-----	21		21				
2031 FISH AND SHELLFISH, PREPARED-----	39,181	21				39,360	
2042 ANIMAL FEEDS-----	22	22					
2049 GRAIN MILL PRODUCTS, NEC-----	11	11					
2081 ALCOHOLIC BEVERAGES-----	1,072	1,072					
2099 MISCELLANEOUS FOOD PRODUCTS-----	374	374					

DETROIT, MI, DISTRICT

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ROUGE RIVER, MICH. (INCLUDED IN PORT OF DETROIT) --CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2211 BASIC TEXTILE PRODUCTS-----	5	3	-----	-----	-----	-----	-----
2421 LUMBER-----	44	-----	44	-----	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED ADON-----	64	-----	64	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	23	23	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	154	154	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	1	1	-----	-----	-----	-----	-----
2711 PRINTED MATTER-----	5	5	-----	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	20	20	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	28,780	-----	-----	-----	-----	28,780	-----
2819 BASIC CHEMICALS AND PROD, NFC-----	460	466	-----	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	154	154	-----	-----	-----	-----	-----
2822 SYNTHETIC RUBBER-----	0	6	-----	-----	-----	-----	-----
2831 DRUGS-----	93	93	-----	-----	-----	-----	-----
2841 SOAP-----	43	19	24	-----	-----	-----	-----
2851 PAINTS-----	7	7	-----	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	21,431	-----	21,431	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	21	21	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	10,552	10,552	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	78	78	-----	-----	-----	-----	-----
2911 GASOLINE-----	3,062	-----	3,062	-----	-----	-----	-----
2912 JET FUEL-----	6,621	-----	6,621	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	9,571	-----	9,571	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	39,480	-----	8,707	664	-----	30,109	-----
2916 LUBRICATING OILS AND GREASES-----	11,280	-----	-----	11,246	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	320,944	-----	28,619	87,546	205,328	-----	3,481
2951 ASPHALT BUILDING MATERIALS-----	163	-----	163	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	718	717	1	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	7	7	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	109	61	48	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	314	314	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	21	21	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	30	23	7	-----	-----	-----	-----
3312 SLAG-----	158,540	-----	20,095	-----	97,814	40,637	-----
3314 IRON AND STEEL PRIMARY FORMS-----	14,545	14,545	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	238,807	238,807	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	2,359	5	2,354	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	931	931	-----	-----	-----	-----	-----
3318 FERROALLOYS-----	5,512	5,512	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	44	44	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	20	20	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	3	3	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	184	184	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	378	357	2	19	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	5,209	5,160	24	25	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	64	64	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	315	280	11	24	-----	-----	-----
3811 INSTR, TIME, PHOT, OPT GOODS-----	15	15	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	27	25	2	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	412,783	-----	412,783	-----	-----	-----	-----
8112 COMMODITIES, NEC-----	48	48	-----	-----	-----	-----	-----

ECORSE, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM GREAT LAKES A.E. TO ECORSE RIVER. CONTROLLING DEPTH: 20 FLET. PROJECT DEPTH: NONE.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	902,054	1982-----	152,788
1978-----	726,162	1983-----	390,485
1979-----	310,877	1984-----	553,793
1980-----	369,818	1985-----	400,161
1981-----	182,540	1986-----	400,071

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	IMPORTS	SHIPMENTS
TOTAL-----	400,071	269,183	102,221	10,661	18,006	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	16,206	-----	-----	-----	3,000	13,206	-----
1911 ORDNANCE AND ACCESSORIES-----	1	-----	-----	-----	1	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	46	-----	-----	-----	46	-----	-----
2042 ANIMAL FEEDS-----	96	96	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	95	95	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	23	-----	-----	-----	23	-----	-----
2311 APPAREL-----	3	3	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	17	11	-----	-----	6	-----	-----
2631 PAPER AND PAPERBOARD-----	1	-----	-----	-----	1	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	130	104	-----	-----	26	-----	-----
2821 PLASTIC MATERIALS-----	10	-----	-----	-----	10	-----	-----
2841 SOAP-----	17	-----	-----	-----	17	-----	-----

Waterborne Commerce of the United States, 1986

ECORSE, MICH. (INCLUDED IN PORT OF DETROIT)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKESHIP	LAKESHIP
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS
2651 PAINTS-----	84	84	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD	110	40	-----	70	4,800
2915 RESIDUAL FUEL OIL-----	9,747	-----	-----	4,947	4,800
2916 LUBRICATING OILS AND GREASES-----	7	7	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD	48	42	-----	6	-----
3111 LEATHER AND LEATHER PRODUCTS-----	2	2	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	48	30	-----	18	-----
3251 STRUCTURAL GLASS PRODUCTS-----	27	1	-----	21	-----
3291 MISC NONMETALLIC MINERAL PROD-----	25	20	-----	5	-----
3314 IRON AND STEEL PRIMARY FORMS-----	82,043	82,043	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	175,883	174,271	-----	1,612	-----
3316 IRON AND STEEL PLATES, SHEETS-----	4,034	-----	4,034	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	2,545	2,545	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, VEC-----	293	213	-----	80	-----
3321 NONFERROUS METALS, VEC-----	313	-----	-----	313	-----
3322 COPPER ALLOYS, UNWORKED-----	52	-----	-----	52	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	131	111	-----	20	-----
3411 FABRICATED METAL PRODUCTS-----	315	139	-----	176	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	9,231	9,190	-----	37	-----
3611 ELECTRICAL MACH AND EQUIP-----	237	234	-----	3	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	204	76	-----	128	-----
3731 SHIPS AND BOATS-----	11	11	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	18	-----	18	-----	-----
3801 INST, TIME, PHOTO, OPT GOODS-----	14	11	-----	5	-----
4011 IRON AND STEEL SCRAP-----	97,769	-----	97,769	-----	-----

TRENTON, MICH. (INCLUDED IN PORT OF DETROIT)

SECTION INCLUDED: U.S. SHORE OF DETROIT RIVER FROM FOOT OF SIRLEY ROAD TO FOOT OF PARKWAY DRIVE. CONTROLLING AND PROJECT DEPTHS: 28 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	3,131,054	1982-----	1,105,460
1978-----	3,704,651	1983-----	1,305,566
1979-----	3,615,544	1984-----	2,083,602
1980-----	2,652,790	1985-----	1,298,067
1981-----	2,569,700	1986-----	1,306,393

* PASSENGERS--237,442.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		CANADIAN		LAKESHIP	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,346,593	28,285	6,875	1,248,312	62,921
1011 IRON ORE AND CONCENTRATES-----	1,098,607	-----	-----	1,098,607	-----
1121 COAL AND LIGNITE-----	20,442	-----	-----	20,442	-----
1411 LIMESTONE-----	129,263	-----	-----	129,263	-----
2911 GASOLINE-----	56,202	6,457	6,875	-----	42,870
2914 DISTILLATE FUEL OIL-----	20,051	-----	-----	-----	20,051
2915 RESIDUAL FUEL OIL-----	21,828	21,828	-----	-----	-----

PORT OF DETROIT, MICH.

SECTION INCLUDED: DETROIT HARBOR, ROUGE RIVER, ECORSE, RIVERVILLE AND TRENTON. CONTROLLING AND PROJECT DEPTHS: SEE AFOREMENTIONED PROJECTS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	25,092,847	896,072	1982-----	13,176,099	369,386
1978-----	25,841,508	866,866	1983-----	14,955,003	879,146
1979-----	24,995,987	831,860	1984-----	17,530,626	1,617,966
1980-----	19,268,403	484,708	1985-----	15,612,384	1,219,480
1981-----	17,839,139	356,694	1986-----	15,210,322	977,736

DETROIT, MI, DISTRICT

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PORT OF DETROIT, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		LOCAL
		OVERSEAS		CANADIAN		LAKESHORE	SHIPMENTS	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	15,219,522	1,011,550	741,956	1,128,156	159,442	11,806,440	367,775	3,451
0103 CORN-----	2,281	-----	2,120	-----	161	-----	-----	-----
0111 SOYBEANS-----	78	-----	76	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	70	57	13	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	3,472	7	2,736	-----	729	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	591	\$17	16	58	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	2	2	-----	-----	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	114	83	-----	31	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	164	142	-----	22	-----	-----	-----	-----
1081 IRON, TIN AND CUPRO-NICKEL-----	5,363,089	-----	-----	470,303	-----	4,992,786	-----	-----
1091 ALUMINUM ORES, CONCENTRATES-----	1	1	-----	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENTRATES-----	14,590	14,590	-----	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENTRATES, NEC-----	7	-----	7	-----	-----	-----	-----	-----
1121 COAL AND LIGHTER-----	2,794,730	-----	-----	-----	-----	2,794,736	-----	-----
1311 CRUDE PETROLEUM-----	2,209	-----	2,209	-----	-----	-----	-----	-----
1411 LIMESTONE-----	2,906,185	-----	-----	46,329	2,859,856	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	34,782	-----	34,782	-----	-----	-----	-----	-----
1451 CLAY-----	318	81	198	1	38	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	300,229	-----	20	-----	-----	300,209	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	589,215	73	-----	474,653	-----	114,487	-----	-----
1911 SHOVELS AND ACCESSORIES-----	167	48	-----	119	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	20	-----	20	-----	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	56	10	-----	46	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	20,560	-----	20,560	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	2,210	20	1,665	156	395	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	79,381	21	-----	-----	-----	59,360	-----	-----
2034 VEGETABLES AND PREP, NEC-----	767	244	-----	523	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NFC-----	3,745	936	-----	2,849	-----	-----	-----	-----
2042 ANIMAL FLEAS-----	370	351	19	-----	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	479	220	182	77	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	6,544	3,543	46	2,943	10	-----	-----	-----
2091 VEGETABLE OILS, MANG, SHORT-----	412	412	-----	-----	-----	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	73	73	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1,548	1,359	26	163	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	567	265	31	269	2	-----	-----	-----
2311 APPAREL-----	59	42	-----	17	-----	-----	-----	-----
2411 LOGS-----	1,044	-----	1,044	-----	-----	-----	-----	-----
2412 WOOD CHIPS, STAVES, MOLDINGS-----	22	22	-----	-----	-----	-----	-----	-----
2421 LUMBER-----	790	62	272	483	23	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	2,133	98	1,839	68	128	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	70	51	-----	25	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	1,873	1,560	-----	313	-----	-----	-----	-----
2611 PULP-----	3,294	3,294	-----	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	2,262	1,502	70	499	201	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	529	254	64	211	-----	-----	-----	-----
2711 PRINTED MATTER-----	342	150	18	37	133	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	530	409	-----	121	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	10	-----	10	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	2,064	507	1	2,156	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	20,780	-----	-----	-----	-----	28,780	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	9,445	4,698	539	4,161	47	-----	-----	-----
2821 PLASTIC MATERIALS-----	3,465	1,392	1,005	1,017	51	-----	-----	-----
2822 SYNTHETIC RUBBER-----	267	100	161	2	4	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	18	-----	18	-----	-----	-----	-----	-----
2831 DRUGS-----	645	285	26	374	-----	-----	-----	-----
2841 SOAP-----	1,015	278	660	64	13	-----	-----	-----
2851 PAINTS-----	3,951	3,636	-----	315	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	4,671	-----	4,671	-----	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	39,010	-----	39,010	-----	-----	-----	-----	-----
2874 INSECTICIDES, DISINFECTANTS-----	1,159	566	268	215	110	-----	-----	-----
2879 FERTILIZERS AND MATERIALS, NEC-----	10,730	10,671	22	37	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	4,632	2,265	304	2,022	41	-----	-----	-----
2911 GASOLINE-----	65,718	-----	-----	15,973	6,875	-----	42,870	-----
2912 JET FUEL-----	6,621	-----	-----	-----	6,621	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	43,782	-----	-----	14,070	9,661	-----	20,051	-----
2915 RESIDUAL FUEL OIL-----	147,155	5,606	-----	72,675	664	38,101	30,109	-----
2916 LUBRICATING OILS AND GREASES-----	19,455	7	8	819	18,621	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	324,691	23	-----	-----	28,541	87,348	205,328	3,451
2920 COKE, PETROLEUM COKE-----	56,792	-----	9,536	8,424	35,832	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	326	-----	-----	-----	326	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	41	11	10	20	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	3,314	2,647	111	502	54	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	196	128	4	60	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1,102	521	106	544	9	-----	-----	-----
3241 BUILDING CEMENT-----	462,043	19,976	-----	A	-----	447,867	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	4,519	2,505	-----	2,010	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	2,165	1,138	21	985	21	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	691	474	2	211	4	-----	-----	-----
3312 SLAG-----	196,602	-----	-----	20,095	-----	135,870	40,637	-----
3314 IRON AND STEEL PRIMARY FORMS-----	101,775	101,773	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	799,414	766,537	14	22,863	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	8,948	8	8,940	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	8,250	7,820	418	12	-----	-----	-----	-----
3318 FERROALLOYS-----	7,655	6,957	-----	898	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	3,783	1,901	2	1,868	12	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	2,138	758	20	1,351	9	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	942	656	33	253	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	2,626	2,273	-----	350	3	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3,893	3,26	22	745	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	9,747	3,936	167	4,774	30	840	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	26,886	20,895	460	4,734	773	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	2,395	1,502	191	648	54	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	11,654	3,819	458	7,254	123	-----	-----	-----

Waterborne Commerce of the United States, 1986

PORT OF DETROIT, MICH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC		LOCAL	
		OVERSEAS		CANADIAN		LAKEWISSE			
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS		
3731 SHIPS AND BOATS-----	101	84	2	8	7	-----	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	184	148	28	2	6	-----	-----	-----	
3811 INSTR, TIME, PHOT, OPT GOODS-----	1,762	322	979	318	163	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	530	438	7	85	-----	-----	-----	-----	
4011 IRON AND STEEL SCRAP-----	686,471	459	685,876	136	-----	-----	-----	-----	
4012 NONFERROUS METAL SCRAP-----	394	43	313	22	21	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SWEEP-----	27	-----	17	-----	10	-----	-----	-----	
8112 COMMODITIES, NEC-----	943	396	222	218	107	-----	-----	-----	

MICHIGAN HARBOR, MICH.

SECTION INCLUDED: CHANNEL IN LAKE ERIE AND 12,300 FEET ABOVE MAISLY RIVER. CONTROLLING DEPTHS: 20 FEET IN TURNING BASIN OVER A CENTER WIDTH OF 150 FEET; 12 FEET IN TURNING BASIN EXCEPT NEAR THE SHORE; 5.5 FEET IN 9 FOOT CHANNEL. PROJECT DEPTHS: 21 FEET TO THE TURNING BASIN; 19 FEET IN THE TURNING BASIN; 9 FEET TO LOWER VOLKS AT MAISLY. NAVIGATION SEASONS: APPROXIMATELY 20 APRIL TO 10 DECEMBER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	1,521,546	-----	1982-----	2,401,441	-----
1978-----	2,374,166	-----	1983-----	2,569,992	-----
1979-----	2,662,768	-----	1984-----	2,398,780	-----
1980-----	2,768,541	-----	1985-----	792,484	-----
1981-----	2,781,958	-----	1986-----	622,757	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		CANADIAN		LAKEWISSE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	622,757	27,672	19	595,066	-----
1011 IRON ORE AND CONCENTRATES-----	25,687	25,687	-----	-----	-----
1121 COAL AND LIGNITE-----	565,626	-----	-----	565,626	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	19	-----	19	-----	-----
2421 LUMBER-----	1,985	1,985	-----	-----	-----
2920 COKE, PETROLEUM LAKE-----	29,440	-----	-----	29,440	-----

DETROIT, MI, DISTRICT

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INTER-HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT	NO COMMERCE REPORTED		
ALBION HARBOR, MI.,-----			
ALGOVAC, MICH. (INCLUDED IN ST. CLAIR RIVER)-----			83,610
ALLEGON HARBOR AND RIVER (INCLUDES), MICH.-----	NO COMMERCE REPORTED		
BIG BAY HARBOR, MICH.-----	NO COMMERCE REPORTED		
BLACK RIVER HARBOR, MICH.-----	NO COMMERCE REPORTED		
CASEVILLE, MICH.-----	NO COMMERCE REPORTED		
CEDAR RIVER HARBOR, MICH.-----	NO COMMERCE REPORTED		
CHARLEVOIX HARBOR, MICH.-----	1121 COAL AND LIGNITE----- 1411 LIMESTONE----- 3201 BUILDING CEMENT----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 4112 COMMODITIES, NEC-----	49,284 622 7,121 261 2,165	
	TOTAL-----	59,453	20,510
CHEBOYGAN HARBOR, MICH.-----	1121 COAL AND LIGNITE----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL-----	15,159 69,061 28,404	
	TOTAL-----	112,564	15,285
DETROIT, MICH., AND VICINITY (INCLUDED IN ST. MARYS RIVER)-----			245,059
DETROIT HARBOR, MI.,-----	0411 FRESH FISH, EXCEPT SHELLFISH----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 4112 COMMODITIES, NEC-----	209 940 626 4,445	
	TOTAL-----	6,220	193,803
EAGLE HARBOR, MICH.-----	NO COMMERCE REPORTED		
FRANKFORT HARBOR, MICH.-----	1411 LIMESTONE----- 2918 ASPHALT, TAR, AND PITCHES-----	9,527 60,247	
	TOTAL-----	69,774	
GLADSTONE HARBOR, MICH.-----	1121 COAL AND LIGNITE----- 1411 LIMESTONE----- 2915 RESIDUAL FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES-----	13,350 17,891 6,000 5,500	
	TOTAL-----	42,741	
GRAND MARAIS HARBOR (HARBOR OF REFUGEE), MICH.-----	1411 LIMESTONE-----	6,672	
GRAND TRAVERSE BAY HARBOR, MICH.-----	0411 FRESH FISH, EXCEPT SHELLFISH-----	12	
HARBOR BEACH, MICH., HARBOR OF REFUGEE, LAKE HURON-----	1121 COAL AND LIGNITE-----	109,951	
HARRISVILLE HARBOR, MICH., HARBOR OF REFUGEE, LAKE HURON-----	NO COMMERCE REPORTED		
KENOSHA HARBOR, WI.-----	0141 FRESH AND FROZEN VEGETABLES----- 1451 CLAY----- 2912 MEAT AND PRODUCTS, NEC----- 2922 DRIED MILK AND CREAM----- 2931 FISH AND SHELLFISH, PREPARED----- 2934 VEGETABLES AND PREP., NEC----- 2941 WHEAT FLOUR AND SEMOLINA----- 2949 GRAIN MILL PRODUCTS, NEC----- 2991 VEGETABLE OILS, WAX, SHORT----- 2999 MISCELLANEOUS FOOD PRODUCTS----- 2711 PRINTED MATTER----- 2819 BASIC CHEMICALS AND PROD., NEC----- 2851 PAINTS----- 3316 IRON AND STEEL PLATES, SHEETS----- 3411 FABRICATED METAL PRODUCTS----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3911 ELECTRICAL MACH AND EQUIP----- 3711 MOTOR VEHICLES, PARTS, EQUIP----- 4112 COMMODITIES, NEC-----	70 6 20 384 1 20 4,814 18,668 6,499 6,810 2 31 22 23 65 665 36 7 16	
	TOTAL-----	37,759	
KEEGANAN WATERWAY, MICH.-----	0411 FRESH FISH, EXCEPT SHELLFISH----- 1121 COAL AND LIGNITE-----	112 52,145	
	TOTAL-----	52,257	15,437
LAC LA BELLE HARBOR, MICH.-----	NO COMMERCE REPORTED		
LELAND HARBOR, MICH.-----	NO COMMERCE REPORTED		
LIME ISLAND, MICH. (INCLUDED IN ST. MARYS RIVER)-----	NO COMMERCE REPORTED		
MACKINAC HARBOR, MICH.-----	1411 LIMESTONE----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2918 ASPHALT, TAR, AND PITCHES----- 4112 COMMODITIES, NEC-----	22,325 408 3,316 10,705	
	TOTAL-----	36,754	938,575
MACKINAC CITY HARBOR, MICH.-----	2911 GASOLINE-----	107,767	

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT--CONTINUED			
MACKINAW CITY HARBOR, MICH. (CONTINUED)	2914 DISTILLATE FUEL OIL-----	34,408	-----
	TOTAL-----	142,175	258,517
MARINETTE HARBOR, WIS.-----	1121 COAL AND LIGNITE-----	4,286	-----
MARYSVILLE, MICH. (INCLUDED IN ST. CLAIR RIVER)-----	1121 COAL AND LIGNITE-----	177,942	-----
	1699 NONMETALLIC MINERALS, NEC-----	15,251	-----
	2915 RESIDUAL FUEL OIL-----	17,238	-----
	TOTAL-----	210,431	-----
MEDINA RIVER AND RIVER, MICH. AND WIS.-----	1121 COAL AND LIGNITE-----	112,222	-----
	1699 NONMETALLIC MINERALS, NEC-----	75,033	-----
	3311 PIG IRON-----	2,582	-----
	TOTAL-----	189,837	-----
NEW BUFFALO HARBOR, MICHIGAN-----	NO COMMERCE REPORTED		
DOONDO HARBOR, WIS.-----	NO COMMERCE REPORTED		
PEWAKEE HARBOR, WIS.-----	NO COMMERCE REPORTED		
PENTICTON HARBOR, MICH.-----	NO COMMERCE REPORTED		
PORT SANILAC HARBOR, MICH.-----	NO COMMERCE REPORTED		
PUT-IN-BAY HARBOR, OHIO-----	2911 GASOLINE-----	6	-----
	2913 KEROSENE-----	13	-----
	2921 LIQUEFIED GASES-----	326	-----
	4112 COMMODITIES, NEC-----	4,420	-----
	TOTAL-----	4,765	529,042
RACINE HARBOR, WIS.-----	NO COMMERCE REPORTED		
ROGERS CITY, MICH.-----	NO COMMERCE REPORTED		
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MICH.-----			22,464
SAULT STE. MARIE, MICH. (INCLUDED IN ST. MARYS RIVER)-----	1411 LIMESTONE-----	43,401	-----
	2411 LOGS-----	4,568	-----
	2691 FOOD MANUFACTURES, NEC-----	1	-----
	2691 PAPER AND PAPER PRODUCTS, NEC-----	1	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	19	-----
	2831 DRUGS-----	7	-----
	2876 INSECTICIDES, DISINFECTANTS-----	4	-----
	2911 GASOLINE-----	33,340	-----
	2914 DISTILLATE FUEL OIL-----	28,250	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	8	-----
	3111 LEATHER AND LEATHER PRODUCTS-----	1	-----
	3211 GLASS AND GLASS PRODUCTS-----	1	-----
	3411 FABRICATED METAL PRODUCTS-----	2,611	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	12	-----
	3611 ELECTRICAL MACH AND EQUIP-----	1	-----
	3911 MISC. MANUFACTURED PRODUCTS-----	1	-----
	TOTAL-----	112,222	617,914
SEBEWAING, MICH.-----	NO COMMERCE REPORTED		
SOUTH HAVEN HARBOR, MICH.-----	NO COMMERCE REPORTED		
ST. JAMES (BEAVER ISLAND) MICH.-----	4112 COMMODITIES, NEC-----	2,165	20,530
TWO RIVERS HARBOR, WIS.-----	2871 NITROGENOUS CHEM FERTILIZERS-----	5,105	-----
WHITE LAKE HARBOR, MICH.-----	NO COMMERCE REPORTED		
WHITEFISH POINT HARBOR, MICH.-----	NO COMMERCE REPORTED		
YANKEEFT, MICH. (INCLUDED IN PORT OF DETROIT)-----	1121 COAL AND LIGNITE-----	92,973	-----
PROJECT			
ALBASTER, MICH.-----	1411 LIMESTONE-----	9,279	-----
	1494 GYPSUM, CRUDE AND PLASTERS-----	618,983	-----
	TOTAL-----	628,242	-----
CALCITE, MICH.-----	1411 LIMESTONE-----	6,845,000	-----
	2211 BASIC TEXTILE PRODUCTS-----	59	-----
	TOTAL-----	6,845,059	-----
ESCANABA, MICH.-----	1011 IRON ORE AND CONCENTRATES-----	8,247,919	-----
	1121 COAL AND LIGNITE-----	314,101	-----
	1411 LIMESTONE-----	25,270	-----
	1699 NONMETALLIC MINERALS, NEC-----	17,295	-----
	2610 SODIUM HYDROXIDE-----	7,104	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	4,301	-----
	2911 GASOLINE-----	55,789	-----
	2912 JET FUEL-----	7,152	-----
	2914 DISTILLATE FUEL OIL-----	41,304	-----
	TOTAL-----	8,720,235	-----
FRASERHEAD, OHIO-----	1011 LIMESTONE-----	841,029	-----

DETROIT, MI, DISTRICT

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OTHER HARBOURS AND WATERWAYS--CONTINUED

HARBOUR OR WATERWAY	COMMODITY	TONS	PASSENGERS
PROJECT--C INTENDED			
PORT BIRMINGHAM (CONTINUED)	1442 SAND, GRAVEL, CRUSHED ROCK----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3791 AT&T TRANSPORTATION EQUIPMENT-----	6,420 1,368 558	-----
	TOTAL-----	849,375	168,926
PORT COQUITLAM, B.C.-----	1411 LIMESTONE----- 1442 SAND, GRAVEL, CRUSHED ROCK-----	1,705,472 16,841	-----
	TOTAL-----	1,722,313	-----
PORT STEPHENS, B.C.-----	1411 LIMESTONE----- 1494 GYPSUM, CRUDE AND PLASTER-----	10,010 439,932	-----
	TOTAL-----	449,942	-----
PORT VICTORIA, B.C.-----	1411 LIMESTONE-----	2,638,164	-----
ST. JOHN'S, Nfld.-----	1411 LIMESTONE----- 1412 BUILDING STONE, UNWORKED----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2921 LIQUEFIED GASES----- 3241 BUILDING CEMENT-----	6,544,465 25,760 61,419 3,000 7,921	-----
	TOTAL-----	6,642,565	-----

Waterborne Commerce of the United States, 1986

BUFFALO, NY, DISTRICT

TOLEDO HARBOR, OHIO

SECTION INCLUDES CHANNEL IN LAKE ERIE AND 7 MILES IN LOWER MAUMEE RIVER, CONTROLLING DEPTHS 12 FEET IN THE HAY CHANNEL, 27 FEET IN THE RIVER CHANNEL TO THE TURNING BASIN, OPPOSITE THE MID-STATES TERMINALS, INC. DOCK; THENCE 14 FEET TO THE TURNING BASIN AT THE UPPER PROJECT LIMITS WITH 15 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN THE TURNING BASIN AT MILE 6.5. PROJECT DEPTHS: 24 FEET IN HAY AND 27 FEET IN THE RIVER CHANNEL TO THE TURNING BASIN OPPOSITE THE MID-STATES TERMINALS, INC. DOCK; THENCE 25 FEET TO THE TURNING BASIN AT UPSTREAM LIMITS OF THE PROJECT WITH 14 FEET IN THE TURNING BASIN; 20 FEET IN THE TURNING BASIN AT MILE 3 AND 27 FEET IN TURNING BASIN AT MILE 6.5. NAVIGATION SEASON APPROXIMATELY MARCH 1 TO DECEMBER 31.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	23,275,707	-----	1982	16,394,148	17,700
1978	27,571,418	10,820	1983	17,404,794	19,600
1979	26,256,355	10,820	1984	20,836,636	197,282
1980	22,263,285	22,400	1985	18,400,468	210,562
1981	22,962,303	19,900	1986	17,818,554	238,058

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEWISSE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	17,618,554	429,562	1,409,787	1,215,124	4,565,617	3,097,246	6,912,725
2103 COKE	769,550	-----	225,595	-----	545,055	-----	-----
2104 OATS	6,618	-----	-----	8,818	-----	-----	-----
2107 MEAT	322,106	-----	165,404	-----	156,702	-----	-----
2111 SOYBEANS	1,020,309	-----	833,679	-----	186,680	-----	-----
2111 IRON ORE AND CONCENTRATES	3,378,553	24,343	-----	538,436	-----	2,774,401	37,373
2151 ALUMINUM ORES, CONCENTRATES	23	-----	23	-----	-----	-----	-----
2121 COAL AND LIGNITE	10,602,721	-----	145,259	-----	3,625,168	27,966	6,805,328
2141 LIMESTONE	22,000	-----	-----	-----	-----	22,000	-----
2142 SAND, GRAVEL, CRUSHED ROCK	198,505	-----	-----	-----	5,000	5,012	168,493
2149 NONMETALLIC MINERALS, NEC	213,252	10,943	-----	34,171	-----	168,138	-----
2042 ANIMAL FEEDS	13,780	-----	13,780	-----	2,756	-----	-----
2061 SUGAR	11,602	8,846	-----	2,756	-----	-----	-----
2081 ALCOHOLIC BEVERAGES	205	205	-----	-----	-----	-----	-----
2095 ICE	34	34	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS	897	892	5	-----	-----	-----	-----
2421 LUMBER	51	-----	-----	-----	51	-----	-----
2431 VENEER, PLYWOOD, WORMED WOOD	25	25	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER	7,014	-----	-----	7,014	-----	-----	-----
2711 PRIVATE MATTER	4	1	3	-----	-----	13,504	-----
2817 BENZENE AND TOLUENE	13,504	-----	-----	-----	13,504	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC	25	22	3	-----	-----	-----	-----
2851 PAINTS	17,692	17,692	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS	150,000	124,378	-----	25,622	-----	-----	-----
2872 POTASSIUM CHEM FERTILIZERS	559,240	-----	-----	559,240	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS	50	-----	54	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC	14,998	-----	-----	14,998	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD	50	16	34	-----	-----	-----	-----
2911 GASOLINE	12,074	-----	-----	12,074	-----	-----	-----
2912 JET FUEL	8,673	-----	-----	-----	-----	8,673	-----
2914 DISTILLATE FUEL OIL	4,157	-----	-----	-----	4,157	-----	-----
2915 RESIDUAL FUEL OIL	63,351	-----	-----	-----	-----	63,351	-----
2916 LUBRICATING OILS AND GREASES	29,400	-----	-----	-----	29,400	-----	-----
2920 COKE, PETROLEUM COKE	9,694	-----	-----	-----	-----	9,694	-----
2991 PETROLEUM AND COAL PROD, NEC	4	4	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD	211	211	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS	2	2	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS	28	28	-----	-----	-----	-----	-----
3241 BUILDING CEMENT	89,635	-----	-----	-----	-----	89,835	-----
3311 PIG IRON	11,992	-----	-----	11,992	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS	5,688	5,688	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET	136,632	136,632	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS	1	1	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE	1,627	1,627	-----	-----	-----	-----	-----
3318 FERROALLOYS	81	81	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC	1	1	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC	2,196	2,196	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED	9	9	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED	83,625	83,625	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS	762	761	1	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL	5,324	4,039	1,285	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP	41	36	5	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP	187	157	50	-----	-----	-----	-----
3731 SHIPS AND BOATS	22	22	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS	9	9	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP	24,655	-----	24,655	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP	2,602	2,602	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC	459	454	2	5	-----	-----	-----

BUFFALO, NY, DISTRICT

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SAVUSKY HARBOR, OHIO

SECTION INCLUDES: SOUTH-EASTERLY PORTION OF SAVUSKY BAY TO AND INCLUDING PASSENGER DUCKS ON CEDAR POINT. CONTROLLING DEPTHS: MOSELY CHANNEL, 27 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25.5 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 21 FEET; STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET. PROJECT DEPTHS: MOSELY CHANNEL, 26 FEET; BAY CHANNEL AND STRAIGHT CHANNEL FROM MOSELY CHANNEL TO JUNCTION WITH BAY CHANNEL, 25 FEET; TURNING BASIN, 24 FEET; DOCK CHANNEL, 22 FEET; AND STRAIGHT CHANNEL FROM DOCK CHANNEL TO JUNCTION WITH BAY CHANNEL, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	4,314,377	146,301	1982	5,065,353	114,634
1978	3,655,746	170,992	1983	4,344,281	224,337
1979	5,972,652	173,153	1984	4,789,730	246,744
1980	6,122,386	162,541	1985	4,585,990	258,831
1981	5,744,310	124,055	1986	4,134,889	263,931

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKERISE	SHIPMENTS
		EXPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	4,134,889	741	2,827,811	290,350	1,015,987
0131 FRESH FRUITS	304	-----	-----	304	-----
0191 MISCELLANEOUS FARM PRODUCTS	23	-----	-----	23	-----
1121 COAL AND LIGNITE	3,789,868	741	2,827,811	1,083	960,233
1411 LIMESTONE	25,595	-----	-----	25,595	-----
1442 SAND, GRAVEL, CRUSHED ROCK	71,312	-----	-----	59,864	11,448
1499 GYPSUM, CRUDE AND PLASTERS	162,297	-----	-----	162,287	-----
1499 VARIOUS METALLIC MINERALS, NEC	40,866	-----	-----	40,866	-----
2031 FISH AND SHELLFISH, PREPARED	39,360	-----	-----	39,360	-----
2042 ANIMAL FEEDS	37	-----	-----	37	-----
2094 GROCERIES	280	-----	-----	284	-----
2095 ICE	69	-----	-----	69	-----
2099 MISCELLANEOUS FOOD PRODUCTS	257	-----	-----	257	-----
2413 FUEL WOOD, CHARCOAL, WASTES	3	-----	-----	3	-----
2511 FURNITURE AND FIXTURES	26	-----	-----	26	-----
2872 POTASSIUM CHEM FERTILIZERS	50	-----	-----	50	-----
2911 GASOLINE	526	-----	-----	526	-----
2918 DISTILLATE FUEL OIL	488	-----	-----	488	-----
2918 ASPHALT, TAR, AND PITCHES	909	-----	-----	909	-----
2921 LIQUEFIED GASES	54	-----	-----	54	-----
3241 BUILDING CEMENT	5	-----	-----	5	-----
3511 MACHINERY, EXCEPT ELECTRICAL	810	-----	-----	273	537
4029 WASTE AND SCRAP, NEC	51	-----	-----	61	-----
4112 COMMODITIES, NEC	1,695	-----	-----	14	1,681

HURON HARBOR, OHIO

SECTION INCLUDES: LAKE APPROACH CHANNEL FROM DEEP WATER TO A POINT OPPOSITE THE OUTER END OF EAST BREAKWATER; ENTRANCE CHANNEL FROM ITS JUNCTION WITH THE APPROACH CHANNEL TO ITS JUNCTION WITH THE RIVER CHANNEL; RIVER CHANNEL AND TURNING BASIN TO WITHIN 1,500 FEET OF THE PENN CENTRAL RAILROAD BRIDGE. CONTROLLING DEPTHS: LAKE APPROACH AND ENTRANCE CHANNEL, 27.5 FEET; RIVER CHANNEL, 27 FEET; TURNING BASIN, 21 FEET. PROJECT DEPTHS: LAKE APPROACH AND ENTRANCE CHANNELS, 29 FEET; RIVER CHANNEL TO SLIP NO. 1, 28 FEET; FROM SLIP NO. 1 THROUGH EASTERN PORTION OF THE TURNING BASIN, 27 FEET; TURNING BASIN, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	1,933,192	1982	1,893,109
1978	2,429,342	1983	1,954,308
1979	3,457,764	1984	2,509,263
1980	2,129,061	1985	1,950,106
1981	2,380,447	1986	262,720

* PASSENGERS--114.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMUNITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKERISE	RECEIPTS
		EXPORTS	IMPORTS	EXPORTS	RECEIPTS
TOTAL	262,720	42,624	24,379	6,183	189,534
0103 COHES	6,183	-----	-----	6,183	-----
0111 SOYBEANS	42,624	42,624	-----	-----	-----
1011 IRON ORE AND CONCENTRATES	24,379	-----	24,379	-----	-----
1411 LIMESTONE	189,534	-----	-----	-----	189,534

Waterborne Commerce of the United States, 1986

LORAIN HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND BLACK RIVER FROM MOUTH TO AND INCLUDING UNITED STATES STEEL CORP., NATIONAL TUBE DIVISION DOCK, 3 MILES, CONTROLLING DEPTH: LAKE APPROACH CHANNEL, 27.0 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 27.0 FEET; REMAINDER OF OUTER HARBOR, 25 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 25 FEET; REMAINDER OF RIVER CHANNEL 24 FEET EXCEPT TURNING BASIN JUST DOWNSTREAM OF THE 21ST STREET RIDGE WHICH IS 12 TO 19 FEET AND THE TURNING BASIN OPPOSITE THE U. S. STEEL CORP., NATIONAL TUBE DIVISION WHICH IS 12 TO 20 FEET. PROJECT DEPTH: LAKE APPROACH CHANNEL, 29 FEET; A CHANNEL 800 FEET WIDE THROUGH THE OUTER HARBOR, 28 FEET; REMAINDER OF OUTER HARBOR, 25 FEET; LOWER 2,200 FEET OF RIVER CHANNEL, 28 FEET; REMAINDER OF RIVER CHANNEL, 27 FEET; EXCEPT TURNING BASIN DOWNSTREAM OF 21ST STREET RIDGE, 20 FEET AND TURNING BASIN OPPOSITE U. S. STEEL CORP., NATIONAL TUBE DIVISION DOCK, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	6,286,413	1982-----	5,672,469
1978-----	6,250,254	1983-----	7,229,537
1979-----	4,833,011	1984-----	9,884,286
1980-----	6,151,366	1985-----	9,426,024
1981-----	13,719,545	1986-----	11,426,088

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		OVERSEAS	CANADIAN	LAKEMISE	SHIPMENTS	
TOTAL-----	11,425,688	87,555	86,054	30,046	6,701,869	4,506,790
1011 IRON ORE AND CONCENTRATES-----	10,880,431	87,555	28,793	-----	6,364,080	4,400,003
1121 COAL AND LIGNITE-----	42,176	-----	-----	30,046	12,130	-----
1411 LIMESTONE-----	138,104	-----	-----	-----	138,104	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	93,100	-----	-----	-----	-----	76,736
1494 GYPSUM, CRUDE AND PLASTERS-----	167,530	-----	-----	-----	167,530	-----
2872 POTASSIC CHEM FERTILIZERS-----	57,291	-----	57,291	-----	-----	-----
3312 SLAG-----	28,051	-----	-----	-----	-----	28,051

CLEVELAND HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR, OLD RIVER AND CUYAHOGA RIVER FROM MOUTH TO AND INCLUDING UPPER REPUBLIC STEEL CORP. DOCK, IMMEDIATELY DOWNSTREAM FROM NORFOLK & WESTERN RAILWAY BRIDGE, 5.8 MILES. CONTROLLING DEPTH: LAKE APPROACH CHANNEL, 30 FEET; ENTRANCE CHANNEL, WEST BASIN AND NESTERLY 800 FEET OF EAST BASIN, 28 FEET; EASTERN 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 26 FEET; CHANNEL BETWEEN PIERS TO CORAIL RAILROAD BRIDGE, 27.5 FEET; CHANNEL IN CUYAHOGA RIVER FROM PENN CENTRAL RAILROAD TO UPPER PROJECT LIMIT, 22 FEET; TURNING BASIN UPSTREAM FROM E.I. DUPONT DE NEMOURS AND COMPANY, INC., GRASSELLI CHEMICAL DIVISION DOCK, 19.5 FEET; OLD RIVER TO SAND PRODUCTS CORPORATION, DOCK, 23 FEET; REMAINDER OF OLD RIVER TO UPPER PROJECT LIMIT, 14 FEET. PROJECT DEPTH: LAKE APPROACH CHANNEL, 29 FEET; WEST BASIN, ENTRANCE CHANNEL AND WEST END OF EAST BASIN, 28 FEET; REMAINING 3800-FOOT LENGTH OF EAST BASIN, 27 FEET; 500-FOOT CHANNEL THROUGH EAST OUTER HARBOR, 25 FEET; LOWER CUYAHOGA RIVER FROM LAKEWARD ENDS OF THE PIERS TO IMMEDIATELY ABOVE JUNCTION WITH OLD RIVER, 27 FEET; OLD RIVER TO UPPER PROJECT LIMIT, 27 FEET; REMAINDER OF CUYAHOGA RIVER, 23 FEET; TURNING BASIN UPSTREAM FROM E.I. DUPONT DE NEMOURS & CO., GRASSELLI CHEMICAL DIVISION DOCK, 18 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	16,103,781	78,721	1982-----	8,941,232	184,000
1978-----	19,658,862	127,820	1983-----	11,359,460	165,600
1979-----	19,470,349	120,400	1984-----	12,920,704	160,000
1980-----	14,045,151	-----	1985-----	13,767,174	190,000
1981-----	13,903,840	27,200	1986-----	12,188,278	200,000

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		OVERSEAS	CANADIAN	LAKEMISE	SHIPMENTS	
TOTAL-----	12,188,278	582,689	67,917	1,802,999	487,292	8,604,249
0107 WHEAT-----	58,272	-----	5,512	-----	52,760	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	22	22	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	339	-----	-----	339	-----	-----
1011 IRON ORE AND CONCENTRATES-----	7,036,465	-----	890,594	-----	6,146,371	-----
1051 ALUMINUM ORES, CONCENTRATES-----	2,471	2,471	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	4,997	-----	5,997	-----	-----	-----
1411 LIMESTONE-----	1,789,433	-----	-----	-----	1,789,433	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	134,379	-----	763,226	-----	71,153	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	35,984	-----	-----	35,984	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	984,906	7,293	-----	377,037	-----	600,176
2011 MEAT, FRESH, CHILLED, FROZEN-----	122	122	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	788	-----	788	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	45	45	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	42	42	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	929	929	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	25	25	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	54	54	-----	-----	-----	-----
2311 APPAREL-----	19	19	-----	-----	-----	-----
2421 LUMBER-----	20	20	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	22	22	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	123	123	-----	-----	-----	-----
2711 PRINTED MATTER-----	4	4	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	356	356	-----	-----	-----	-----

BUFFALO, NY, DISTRICT

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CLIFFELAND HARBOR, OHIO--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEWISE	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2821 PLASTIC MATERIALS-----	111	111	-----	-----	-----	-----	-----
2841 GAPS-----	5	5	-----	-----	-----	-----	-----
2851 PAINTS-----	6,946	89	-----	6,857	-----	-----	-----
2672 PETASSIC CHEM FERTILIZERS	22,000	-----	-----	22,000	-----	-----	-----
2679 FERTILIZER AND MATERIALS, VEC	354	364	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	234	6	228	-----	-----	-----	-----
2911 GASOLINE-----	23,674	-----	-----	23,674	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	16,255	-----	-----	16,255	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	67,039	-----	-----	19,126	-----	69,913	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	4,754	-----	-----	4,764	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	111,180	-----	-----	5,354	-----	105,826	-----
2920 COKE, PETROLEUM COKE-----	73,552	-----	-----	73,552	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	100	100	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	5	5	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	119	119	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	401,589	-----	-----	29,511	-----	368,793	3,285
3251 STRUCTURAL CLAY PRODUCTS-----	274	279	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	9	9	-----	-----	-----	-----	-----
3291 MISC IRON-METALIC MINERAL PROD-----	107	107	-----	-----	-----	-----	-----
3312 SLAG-----	59,671	-----	-----	-----	-----	-----	59,671
3314 IRON AND STEEL PRIMARY FORMS-----	156,558	156,558	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	356,357	356,237	-----	120	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	2,743	900	1,843	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	3,311	3,311	-----	-----	-----	-----	-----
3318 FERROALLOY-----	21,576	11,255	-----	10,321	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	8,621	774	7,847	-----	-----	-----	-----
3321 NOxious METALS, NEC-----	6	6	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	67	67	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	2,662	2,662	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	1,030	1,030	-----	-----	-----	-----	-----
3411 FABRICATED METAL PROD, GTS-----	1,401	1,401	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	37,141	35,770	2,071	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	95	89	6	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,435	271	1,164	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	23	23	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOT, JET, GOO-----	16	16	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODCT-----	60	60	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	48,045	-----	48,045	-----	-----	-----	-----
4012 VARIOUS METAL SCRAP-----	570	177	393	-----	-----	-----	-----
4112 CUMULATED, NEC-----	61	41	20	-----	-----	-----	-----

FAIRPORT HARBOR, OHIO

SECTION EXCLUDES: OUTER HARBOR AND GRAND RIVER FROM MOUTH TO AND INCLUDING DIAMOND ALKALI COMPANY STONE DOCK, 1.5 MILES, CONTROLLING DEPTHS: ENTRANCE CHANNEL, 20 FEET; OUTER HARBOR, 24.0 FEET; GRAND RIVER TO UPSTREAM OF REPUBLIC STEEL, 19.0 FEET; REMAINING LENGTH OF GRAND RIVER TO THE UPPER PROJECT LIMITS, 19 FEET; EXCEPT FOR 1,000 FEET OF THE UPSTREAM END OF THE WEST SIDE OF THE CHANNEL, 5 FEET; TURNING BASIN, 15 FEET. MAINTENANCE DEPTHS: ENTRANCE CHANNEL AND OUTER HARBOR, 25 FEET; GRAND RIVER TO UPSTREAM OF REPUBLIC STEEL, 24 FEET; REMAINING LENGTH OF GRAND RIVER TO THE UPPER PROJECT LIMITS, 21 FEET; TURNING BASIN, 18 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS
1977-----	2,194,262
1978-----	2,500,469
1979-----	2,391,800
1980-----	1,906,627
1981-----	1,674,166

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC	
		OVERSEAS		CANADIAN		LAKEWISE	
		EXPORTS	IMPORTS	EXPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	2,492,551	40,298	43,402	335,011	1,616,622	378,291	78,927
1411 CLAYESTONE-----	1,616,622	-----	-----	-----	1,616,622	-----	-----
1442 SAND, GRAVEL, CR. SAND, ETC-----	122,329	-----	43,402	-----	-----	-----	78,927
1499 NONMETALLIC MINERALS, ETC-----	753,600	40,298	-----	335,011	-----	378,291	-----

Waterborne Commerce of the United States, 1986

ASHTABULA HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND ASHTABULA RIVER FROM SOUTH TI AND INCLUDING CITY OF ASHTABULA DUCK (FORMER GREAT LAKES ENGINEERING WORKS DOCK), 1.75 MILES. CONTROLLING DEPTHS: WESTERLY PORTION OF OUTER HARBOR TO INNER BREAKWATER & APPROACH CHANNEL TO DOCKS EAST OF INNER BREAKWATER, 26.0 FEET; TURNING BASIN IN FRONT OF INNER BREAKWATER 21.5 FEET; THE APPROACH TO THE PENN. CENTRAL RAILROAD COMPANY'S SLIP AND THE LOWER 2,000 FEET OF THE ASHTABULA RIVER, 23 FEET; THENCE TO CAR FERRY SLIP, 10 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN, AND INCLUDING TURNING BASIN, 3 FEET. PROJECT DEPTHS: ENTRANCE CHANNEL, 29 FEET; WESTERLY PORTION OF OUTER HARBOR TO INNER BREAKWATER, 28 FEET; APPROACH CHANNEL TO DOCKS EAST OF INNER BREAKWATER, 28 FEET; TURNING BASIN IN THE EASTERLY PORTION OF THE OUTER HARBOR, 22 FEET; CHANNEL FROM INSIDE THE INNER BREAKWATER TO SOUTH OF RIVER AND 2,000 FEET UPSTREAM AND APPROACH CHANNEL TO PENN. CENTRAL RAILROAD SLIP, 27 FEET; THENCE TO CAR FERRY SLIP, 16 FEET; THENCE TO A POINT 1,550 FEET UPSTREAM FROM TURNING BASIN AND INCLUDING TURNING BASIN, 18 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	11,532,973	1952-----	6,532,337
1978-----	12,830,251	1953-----	8,345,923
1979-----	14,602,615	1954-----	9,243,475
1980-----	10,074,956	1955-----	7,039,128
1981-----	9,947,753	1956-----	7,153,593

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN		DOMESTIC	
		IMPORTS	EXPORTS	IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	7,163,593	212,467	13,668	332,138	2,616,401	2,901,145	1,087,774
1011 IRON ORE AND CONCENTRATES-----	2,775,334	82,018	-----	145,675	-----	2,529,641	-----
1091 NONFERROUS METALS, CONCENTRATES, NFE-----	70,227	70,227	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	3,084,637	-----	-----	-----	2,596,863	-----	1,087,774
1411 LIMESTONE-----	345,037	-----	-----	42,584	-----	346,037	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	42,564	-----	-----	42,584	-----	-----	-----
1451 CLAY-----	6,945	6,945	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, IEC-----	19,538	-----	-----	-----	19,538	-----	-----
2872 POTASSIUM CHEM FERTILIZERS-----	140,871	-----	-----	135,404	-----	5,447	-----
5311 PIG IRON-----	10,495	-----	-----	10,495	-----	-----	-----
5315 IRON, STEEL SHAPES, EXC SHEET-----	4,822	4,822	-----	-----	-----	-----	-----
3318 FEEDSTOCKS-----	671	671	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	13,656	-----	13,656	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	47,784	47,784	-----	-----	-----	-----	-----

CONNEAUT HARBOR, OHIO

SECTION INCLUDED: OUTER HARBOR AND CONNEAUT RIVER 2,450 FEET UPSTREAM OF THE OUTER END OF THE WEST PIER. CONTROLLING DEPTHS: WESTERLY PORTION OF OUTER HARBOR, 20.5 FEET; ACCESS CHANNEL TO CITY DOCK, 7.5 FEET; EASTERLY PORTION OF OUTER HARBOR 23 FEET. INNER HARBOR, 28.5 FEET; PROJECT DEPTH: EASTERLY PORTION OF OUTER HARBOR, 26 FEET; WESTERLY PORTION OF OUTER HARBOR, 22 FEET; ACCESS CHANNEL TO CITY DOCK, 4 FEET; INNER HARBOR, 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	15,146,627	1982-----	10,968,273
1978-----	17,427,794	1983-----	8,771,290
1979-----	21,478,001	1984-----	12,660,783
1980-----	18,654,609	1985-----	9,148,003
1981-----	16,154,563	1986-----	7,675,248

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	OVERSEAS		CANADIAN		DOMESTIC	
		EXPORTS	IMPORTS	EXPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	7,675,248	247,211	27,693	4,816,798	1,194,539	1,389,007	-----
1011 IRON ORE AND CONCENTRATES-----	821,572	-----	27,693	-----	795,879	-----	-----
1121 COAL AND LIGNITE-----	6,416,349	247,211	-----	4,787,598	-----	1,383,540	-----
1411 LIMESTONE-----	400,660	-----	-----	-----	400,660	-----	-----
1499 NONMETALLIC MINERALS, IEC-----	29,200	-----	-----	29,200	-----	-----	-----
2872 POTASSIUM CHEM FERTILIZERS-----	5,467	-----	-----	-----	-----	5,467	-----

BUFFALO, NY, DISTRICT

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ERIE HARBOR, PA.

SECTION INCLUDED: SOUTHERLY SIDE OF ERIE HARBOR AND LAKE ERIE WATER FRONTRAGE FROM HARBOR ENTRANCE EASTWARD TO AND INCLUDING SUN OIL CO. DOCK, 3.5 MILES. CONTROLLING DEPTHS: EXTRANCE CHANNEL, 24 FEET; CHANNEL TO EASTERN COAL AND ORE DOCKS, 27 FEET; AND 27 FEET TO THE PORT AUTHORITY DOCKS HARBOR BASIN, 21 FEET; NESTERLY PORTION OF HARBOR, 18 FEET. PROJECT DEPTHS: ENTRANCE CHANNEL, 24 FEET; APPROACH CHANNEL TO EASTERN COAL AND ORE DOCKS, 24 FEET; APPROACH TO PORT AUTHORITY DOCKS, 27 FEET; HARBOR BASIN, 21 FEET; NESTERLY PORTION OF HARBOR EAST, 18 FEET. THE APPROACH CHANNEL FROM THE 24 FOOT CHANNEL TO AND INCLUDING TURNING BASIN AT WESTERLY DOCKS HAS BEEN AUTHORIZED, BUT NEVER COMPLETED AND CONSIDERED INACTIVE AT THE PRESENT TIME.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	954,672	-----	1982	624,432	14,698
1978	1,129,665	67,200	1983	606,690	-----
1979	433,707	27,560	1984	828,904	19,940
1980	505,075	24,080	1985	665,504	26,988
1981	754,595	23,423	1986	654,141	12,603

WEIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC
		OVERSEAS		CANADIAN	LAKERISE	
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS	
TOTAL	834,141	43,478	77,097	137,620	403,669	112,271
1411 LIME STONE	352,160	-----	-----	-----	352,160	-----
1442 SAND, GRAVEL, CRUSHED ROCK	297,035	-----	-----	124,196	560	172,277
1499 NONMETALLIC MINERALS, NEC	50,949	-----	-----	-----	50,949	-----
2014 TALLOW, ANIMAL FATS AND JELLS	20	-----	20	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC	1,102	-----	1,102	-----	-----	-----
2519 BASIC CHEMICALS AND PLASTIC, NEC	14	-----	14	-----	-----	-----
2851 PAINTS	15	-----	15	-----	-----	-----
3311 PIG IRON	1	-----	1	-----	-----	-----
3314 IRON AND STEEL PRIMAR. FORMS	2,756	-----	-----	2,756	-----	-----
3315 IRON, STEEL, STERLING, ETC SHEETS	24,790	24,790	-----	-----	-----	-----
3316 IRON AND STEEL PLATED SHEETS	17,843	12,302	5,481	-----	-----	-----
3318 PERFORATED SHEETS	7,950	-----	7,950	-----	-----	-----
3521 NONFERROUS METALS, NEC	15,521	6,301	-----	9,220	-----	-----
3541 FABRICATED METAL PRODUCTS	20	20	-----	-----	-----	-----
5511 MACHINERY, EXCEPT ELECTRICAL	74	-----	74	-----	-----	-----
5611 ELECTRICAL MACH AND EQUIP	246	5	241	-----	-----	-----
5711 MOTOR VEHICLES, PARTS, EQUIP	406	-----	406	-----	-----	-----
5731 SHIPS AND BOATS	199	-----	199	-----	-----	-----
5-11 ALSO MANUFACTURED PRODUCTS	4	-----	4	-----	-----	-----
4011 IRON AND STEEL SCRAP	3	-----	3	-----	-----	-----
4112 COMMODITIES, NEC	1,442	-----	1,442	-----	-----	-----
4999 DEPARTMENT OF DEFENSE, BY SPECI	3,577	-----	3,577	-----	-----	-----

BUFFALO HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)

SECTION INCLUDED: OUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL R. Y. BRIDGE, 5.5 MILES. BUFFALO SHIP CANAL, AND BLACK ROCK CANAL TO THE BLACK ROCK LOCK, CONTROLLING DEPTHS: DUTCH AREA OF SOUTH ENTRANCE CHANNEL, 30 FEET; SOUTH ENTRANCE CHANNEL 24.5 FEET; SOUTHERLY PORTION OF OUTER HARBOR, 28 FEET; 900 FEET WIDE SECTION ADJACENT TO THE SOUTH BREAKWATER BEGINNING 2,000 FEET NORTH OF THE SOUTH BREAKWATER AND PROCEEDING NORTHERLY 4,200 FEET, 23 FEET; THENCE 27 FEET TO THE INTERNATIONAL SALT COMPANY AND 25 FEET IN THE REMAINDER OF THE OUTER HARBOR TO THE NORTH; NEW YORK ENTRANCE CHANNEL, 25 FEET; BLACK ROCK CANAL, 21 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER AND BUFFALO SHIP CANAL, 22 FEET. PROJECT DEPTHS: OUTER AREA OF SOUTH ENTRANCE CHANNEL, 30 FEET; SOUTH ENTRANCE CHANNEL, 27 FEET; SOUTHERLY PORTION OF OUTER HARBOR, 28 FEET; 900 FEET WIDE SECTION ADJACENT TO THE SOUTH BREAKWATER BEGINNING 2,000 FEET NORTH OF THE SOUTH BREAKWATER AND PROCEEDING NORTHERLY 4,200 FEET, 23 FEET. MIDDLE SECTION OF THE OUTER HARBOR, 27 FEET; NORTH OUTER HARBOR, 23 FEET; NORTH ENTRANCE CHANNEL, 25 FEET; BUFFALO RIVER ENTRANCE, BUFFALO RIVER AND BUFFALO SHIP CANAL, 22 FEET. BLACK ROCK CANAL, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	7,975,244	-----	1982	3,551,960	-----
1978	9,134,793	-----	1983	1,963,434	-----
1979	8,315,680	-----	1984	1,490,354	-----
1980	5,470,309	-----	1985	1,599,804	-----
1981	5,785,021	-----	1986	1,464,460	-----

WEIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC
		OVERSEAS		CANADIAN	LAKERISE	
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS	
TOTAL	1,464,460	8,296	91,682	169,375	1,195,107	-----
2107 WHEAT	812,020	-----	-----	107,566	704,654	-----
1411 LIMESTONE	131,846	-----	-----	-----	131,846	-----
1442 SAND, GRAVEL, CRUSHED ROCK	37,403	-----	-----	-----	37,403	-----
1499 NONMETALLIC MINERALS, NEC	108,992	-----	-----	-----	108,992	-----
2014 TALLOW, ANIMAL FATS AND JELS	554	-----	554	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC	37	37	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGE	22	22	-----	-----	-----	-----
2311 APPAREL	21	21	-----	-----	-----	-----
2491 FOOD MANUFACTURES, NEC	3	-----	3	-----	3	-----

Waterborne Commerce of the United States, 1986

BUFFALO HARBOR, N. Y. (INCLUDED IN PORT OF BUFFALO)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		CANADIAN	LAKESHORE
		IMPORTS	EXPORTS	IMPORTS	RECEIPTS
2819 BASIC CHEMICALS AND PRIM., NEC	2			2	
2821 PLASTIC MATERIALS	2			2	
2841 SOAP	99			79	
2872 POTASSIC CHEM FERTILIZERS	15,549			15,549	
2911 GASOLINE	68,978			19,111	49,867
2914 DISTILLATE FUEL OIL	29,517			9,266	20,051
2915 RESIDUAL FUEL OIL	17,963			17,165	
3011 RUBBER AND MISC PLASTIC PRIM	6			6	
3241 BUILDING CEMENT	142,294				142,294
3315 IRON, STEEL SHAPES, EXC SHEET	8,124	8,124			
3319 IRON AND STEEL PRODUCTS, NEC	20	20			
3411 FABRICATED METAL PRODUCTS	1	1			
3511 MACHINERY, EXCEPT ELECTRICAL	10	6	3	1	
3611 ELECTRICAL MACH AND EQUIP	1,022	10	1,001	11	
3711 MOTOR VEHICLES, PARTS, EQUIP	55	55			
4011 IRON AND STEEL SCRAP	90,120		90,120		

PORT OF BUFFALO, N. Y.

SECTION INCLUDED: JUTER HARBOR, LACKAWANNA CANAL, UNION CANAL, BUFFALO RIVER FROM MOUTH TO CONRAIL RR BRIDGE 5.5 MILES, BUFFALO SHIP CANAL, BLACK ROCK CANAL, BLACK ROCK LICK, BLACK ROCK CHANNEL, NIAGARA RIVER, AND TONAWANDA TO AND INCLUDING BUFFALO OIL TERMINAL, INC. DOCK, LOCATED ABOUT 2,000 FEET NORTH OF TURNING HASIN, TO ANANDA INNER HARBOR, AND TONAWANDA CREEK CHANNEL FROM MOUTH TO MAIN STREET BRIDGE. CONTROLLING DEPTHS: SEE BUFFALO HARBOR, NIAGARA RIVER AND TONAWANDA.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	8,696,209		1982	3,968,173	
1978	9,961,560		1983	2,286,076	
1979	8,840,496		1984	1,854,266	
1980	5,946,470		1985	1,719,481	
1981	6,191,156		1986	1,629,169	

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS		CANADIAN	LAKESHORE
		IMPORTS	EXPORTS	IMPORTS	SHIPMENTS
TOTAL	1,628,169	8,316	91,682	217,959	1,304,911
0107 WHEAT	826,412			121,758	704,654
1411 LIMESTONE	131,846				131,846
1442 SAND, GRAVEL, CRUSHED ROCK	37,403				37,403
1499 NONMETALLIC MINERALS, NEC	108,992				108,992
2014 TALLOW, ANIMAL FATS AND OILS	554		554		
2039 PREP FRUIT AND VEG JUICE, NEC	37	37			
2081 ALCOHOLIC BEVERAGES	22	22			
2311 APPAREL	21	21			
2491 ADOD MANUFACTURES, NEC	3			3	
2819 BASIC CHEMICALS AND PRIM., NEC	2		2		
2821 PLASTIC MATERIALS	2		2		
2841 SOAP	99			99	
2872 POTASSIC CHEM FERTILIZERS	15,549			15,549	
2911 GASOLINE	73,052			23,165	49,867
2914 DISTILLATE FUEL OIL	45,303			25,252	20,051
2915 RESIDUAL FUEL OIL	39,945			32,045	5,501
2918 ASPHALT, TAR, AND PITCHES	107,255				107,255
3011 RUBBER AND MISC PLASTIC PRIM	6			6	
3241 BUILDING CEMENT	142,294	8,124			142,294
3315 IRON, STEEL SHAPES, EXC SHEET	20	20			
3319 IRON AND STEEL PRODUCTS, NEC	1	1			
3411 FABRICATED METAL PRODUCTS	30	26	5	1	
3511 MACHINERY, EXCEPT ELECTRICAL	1,022	10	1,001	11	
3611 ELECTRICAL MACH AND EQUIP	55	55			
3711 MOTOR VEHICLES, PARTS, EQUIP	55				
4011 IRON AND STEEL SCRAP	90,120		90,120		

OSWEGO HARBOR, N. Y.

SECTION INCLUDED: JUTER HARBOR AND OSWEGO RIVER FROM MOUTH TO SEVERA STREET, CONTROLLING DEPTHS: LAKE APPROACH CHANNEL, 27 FEET; CHANNEL THROUGH JUTER HARBOR, 24 FEET; EAST AND WEST SIDE OF JUTER HARBOR, 21 FEET; OSWEGO RIVER CHANNEL, 26 FEET, PROJECT DEPTHS: LAKE APPROACH CHANNEL, 27 FEET; CHANNEL THROUGH JUTER HARBOR, 25 FEET; LOWER 1,600 FEET OF OSWEGO RIVER CHANNEL, 24 FEET; REMAINDER OF OSWEGO RIVER CHANNEL AND OSWEGO HARBOR, 21 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	1,346,112	1982	
1978	1,215,979	1983	
1979	1,495,967	1984	
1980	860,144	1985	
1981	1,039,707	1986	

BUFFALO, NY, DISTRICT

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OSAGEO HARBOR, N. Y.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		OVERSEAS	CANADIAN	LAKERWISE	INTERNAL
		IMPORTS	IMPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	482,648	27,198	375,385	14,899	65,166
1499 NONMETALLIC MINERALS, NEC-----	14,899	-----	-----	14,899	-----
2211 BASIC TEXTILE PRODUCTS-----	1,758	1,738	-----	-----	-----
2311 APPAREL-----	2	2	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	22,108	-----	22,108	-----	-----
2915 RESIDUAL FUEL OIL-----	91,357	25,452	65,905	-----	-----
3201 BUILDING CEMENT-----	352,538	-----	287,372	-----	65,166
3811 FABRICATED METAL PRODUCTS-----	6	6	-----	-----	-----

Waterborne Commerce of the United States, 1986

OTHER HARBOURS & O WATERWAYS

HARBOR OR WATERWAY OR PORT	COMMODITY	TONS	PASSENGERS
BARCELONA HARBOUR, N. Y.-----	NO COMMERCE REPORTED		
CAPE VINCENT, N. Y.-----			79,888
DUNKIRK HARBOUR, N. Y.-----	NO COMMERCE REPORTED		
GREAT SODA KEY HARBOUR, N. Y.-----	NO COMMERCE REPORTED		
KELLEY'S ISLAND, OHIO-----	0191 MISCELLANEOUS FARM PRODUCTS----- 1442 SAND, GRAVEL, CRUSHED ROCK----- 2042 ANIMAL FEEDS----- 2094 GRANULATES----- 2095 ICE----- 2099 MISCELLANEOUS FOOD PRODUCTS----- 2413 FUEL WOOD, CHARCOAL, WASTES----- 2511 FURNITURE AND FIXTURES----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES----- 2921 LIQUEFIED GASES----- 2911 MACHINERY, EXCEPT ELECTRICAL----- 3791 VTS/ TRANSPORTATION EQUIPMENT----- 4029 WASTE AND SCRAP, NEC----- 4112 COMMODITIES, NEC-----	23 705 37 284 69 257 3 26 521 434 909 52 2,173 558 61 1,681	
	TOTAL-----	7,793	183,603
NIAGARA FALLS, N. Y.-----	2911 GASOLINE----- 2914 DISTILLATE FUEL (IL----- 2915 RESIDUAL FUEL OIL-----	5,083 49,327 27,819	
	TOTAL-----	82,229	
NIAGARA RIVER, N. Y. (INCLUDED IN PORT OF BUFFALO)-----	0107 WHEAT----- 2911 GASOLINE----- 2914 DISTILLATE FUEL OIL----- 2915 RESIDUAL FUEL OIL----- 2918 ASPHALT, TAR, AND PITCHES----- 3511 MACHINERY, EXCEPT ELECTRICAL-----	14,392 9,157 20,530 49,801 107,255 20	
	TOTAL-----	201,155	
ODGENSBURG HARBOUR, N. Y.-----	1411 LIMESTONE----- 1451 CLAY----- 1499 NONMETALLIC MINERALS, NEC----- 2421 PLASTIC MATERIALS----- 2451 PAINTS----- 2491 MISCELLANEOUS CHEMICAL PROD-----	44,000 3,678 69,055 90 12 32	
	TOTAL-----	116,867	
PORT CLINTON HARBOUR, OHIO-----	1442 SAND, GRAVEL, CRUSHED ROCK----- 2911 GASOLINE----- 2913 KEROSENE----- 2914 DISTILLATE FUEL OIL----- 2921 LIQUEFIED GASES----- 4112 COMMODITIES, NEC-----	13,300 78 21 22 508 5,148	
	TOTAL-----	19,077	64,902
ROCHESTER (CHARLOTTE) HARBOUR, N. Y.-----	3201 BUILDING CEMENT----- 3511 MACHINERY, EXCEPT ELECTRICAL----- 3611 ELECTRICAL MACH AND EQUIP----- 4112 COMMODITIES, NEC-----	230,274 33 10 13	
	TOTAL-----	230,330	
SACADES HARBOUR, N. Y.-----	NO COMMERCE REPORTED		
TOVAKANDA HARBOUR, N. Y. (INCLUDED IN PORT OF BUFFALO)-----	NO COMMERCE REPORTED		
VERMILION HARBOUR, OHIO-----	NO COMMERCE REPORTED		
WADDEINGTON HARBOUR, N. Y.-----	NO COMMERCE REPORTED		

ROCK ISLAND, IL, DISTRICT

ILLINOIS RIVER, ILL. (INCLUDED IN THE
ILLINOIS WATERWAY CONSOLIDATED)

SECTION INCLUDED: MOUTH OF ILLINOIS RIVER, GRAFTON, ILLINOIS, TO LOCKPORT, ILLINOIS, 291.0 MILES. CONTROLLING AND PROJET DEPTHS: 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	40,636,496	1982	39,471,855
1978	37,251,157	1983	41,028,849
1979	35,150,250	1984	37,085,576
1980	41,703,337	1985	36,534,770
1981	39,764,309	1986	39,991,598

* PASSENGERS--80,496.

FREIGHT TRAFFIC, 1986

COASTWISE

(SHORT TONS)

COMMODITY	DOMESTIC COASTWISE SHIPMENTS
TOTAL	270
3511 MACHINERY, EXCEPT ELECTRICAL	270

TON-MILES, COASTWISE, 66,690.

INTERIAL

(SHORT TONS)

COMMODITY	TOTAL	UPBOUND	INBOUND UPBOUND	OUTBOUND UPBOUND	THROUGH UPBOUND	DOWNBOUND	INBOUND DOWNBOUND	OUTBOUND DOWNBOUND	THROUGH DOWNBOUND
TOTAL	39,991,124	66,652	7,110,419	4,910,991	6,910,279	520,293	443,160	16,055,314	3,973,816
0103 CORN	8,678,712	4,738	1,603	5,320	7,477	74,746	14,963	8,227,197	350,143
0104 OATS	15,729								8,247
0106 SORGHUM GRAINS	62,971	11,852	11,620					39,499	
0107 WHEAT	252,240				1,578			121,614	129,048
0111 SOYBEANS	4,770,406							4,288,976	481,030
0801 CHUDE RUBBER AND ALLIED GUMS	2,838				2,838				
0931 MARINE SHELLS, UNMANUFACTURED	11,894				11,894				
1011 IRON ORE AND CONCENTRATES	61,073		1,715		59,358				
1051 ALUMINUM ORES, CONCENTRATES	2,964				2,964				
1061 MAGNESIUM ORES, CONCENTRATES	22,256				21,445				811
1091 NONFERROUS ORES, CONCENT., NEC	9,637				9,637				
1121 COAL AND LIGNITE	7,545,250		2,854,400	3,469,220	1,204,748		10,960	1,617	4,285
1311 CRUDE PETROLEUM	140,229								140,229
1411 LIMESTONE	24,170		8,930		15,240				
1442 SAND, GRAVEL, CRUSHED ROCK	1,259,346	1,200	13,691	935,550	29,058		240,300	38,085	1,482
1451 CLAY	1,409				1,409				
1471 PHOSPHATE ROCK	1,502								
1479 NATURAL FERTILIZER MATS, NEC	4,903		4,903						
1494 GYPSUM, CRUDE AND PLASTERS	20,483		20,483						
1499 NONMETALLIC MINERALS, NEC	875,872		290,446		563,978				1,448
2014 TALLOW, ANIMAL FATS AND OILS	56,945								56,945
2042 ANIMAL FEEDS	1,390,335		28,399					1,357,596	4,340
2049 GRAIN MILL PRODUCTS, NEC	404,000		1,600					400,537	1,863
2061 SUGAR	75,766				75,766				
2062 MOLASSES	62,614			11,819	50,795				
2091 VEGETABLE OILS, MARG., SHORT	32,959			19,500	8,362		700	2,722	1,675
2415 PULPWOOD, LOG	1,384				1,384				
2421 LUMBER	10,449				8,225				2,228
2431 VENEER, PLYWOOD, WORKED WOOD	11,007				11,007				
2611 PULP	1,328				1,328				
2621 STANDARD NEWSPRINT PAPER	934				934				
2631 PAPER AND PAPERBOARD	19,120				19,120				
2810 SODIUM HYDROXIDE	570,400				555,172			6,923	8,305
2811 CRUDE TAR, OIL, GAS PRODUCTS	203,444		78,691		33,602		10,868	6,834	73,469
2813 ALCOHOLS	778,033	7,454	30,580	69,304	353,225	67,823		246,803	2,644
2817 BENZENE AND TOLUENE	97,406				50,900			8,160	38,346
2818 SULPHURIC ACID	1,597								1,597
2819 BASIC CHEMICALS AND PROD., NEC	1,527,054		1,093,388	13,086	367,274		13,956	12,906	26,444
2821 PLASTIC MATERIALS	1,827				1,827				
2871 NITROGENOUS CHEM FERTILIZERS	688,502	2,207	397,903	30,448	163,624	27,579		43,594	23,147
2872 POTASSIC CHEM FERTILIZERS	199,768	17,752	177,541		1,478			2,993	
2873 PHOSPHATIC CHEM FERTILIZERS	74,099	1,072	58,758	1,801	16,468				
2879 FERTILIZER AND MATERIALS, NEC	860,291	1,605	821,376		28,495	5,072		664	3,079
2891 MISCELLANEOUS CHEMICAL PROD.	87,392				58,550				28,842
2911 GASOLINE	790,160		221,772	1,887	83,376	218,369	5,400	142,766	116,390
2912 JET FUEL	10,094		4,486				2,389	3,219	
2913 KEROSENE	54,799		8,927		26,893			18,979	
2914 DISTILLATE FUEL OIL	682,143		202,186	123,931	13,980	88,790	5,576	180,147	67,533
2915 RESIDUAL FUEL OIL	1,129,442		423,224	30,164	274,109	6,450		191,041	204,050
2916 LUBRICATING OILS AND GREASES	342,277		2,769		263,401				76,107
2917 NAPHTHA, PETROLEUM SOLVENTS	182,280		51,129		90,713				1,345
2918 ASPHALT, TAR, AND PITCHES	655,750		130,433	1,428	211,156	1,160		5,234	336,339
2920 COKE, TAR, AND PITCHES	1,550,832	18,972		223,914	235,164	30,302	17,038	492,501	532,041
2991 PETROLEUM AND COAL PROD., NEC	3,000				1,000				1,600

Waterborne Commerce of the United States, 1986

ILLINOIS RIVER, ILL. (INCLUDED IN THE
ILLINOIS WATERWAY CONSOLIDATED)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

SECTION 2

TRIPS AND DRAFTS OF VESSELS

ST. PAUL, MN, DISTRICT (GREAT LAKES PORTION)

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION					DIRECTION						
DRAFT (FEET)	HARBOR OR WATERWAY	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
	TWO HARBORS (AGATE BAY), MINN.												
28		8					4	85					103
27		8		3			7	25		3			28
26				6			6	3		6			9
25					11		11	1					1
24			27	6		33				6			6
23					7		7						
22			28		3		31	1		3			4
21			10				14						
20			15				15	1					1
18			22				22						
16			1				1						
12 AND LESS		184					184	182					182
TOTAL		299		18	18		335	298		18	18		334
	DULUTH-SUPERIOR HARBOR, WINN. AND WIS.												
32													2
29													93
28			31				31	224					224
27			8				8	76					76
26			39		1		40	200		1			201
25			13				13	14					14
24			28				28	56					56
23			124				125	41					42
22			137		1		137	28					28
21			39				40	27					28
20			180				182	22					22
19			28				28	5					5
18			107				107	21					21
17			68	1			69	21					21
16			121		7		128	12					18
15			8				8	4					4
14			4		1		5	103	1				106
13								1					1
12 AND LESS		1,373	150	38	40	1	1,602	1,363	150	38	41	1	1,593
TOTAL		2,308	151	47	42	3	2,551	2,313	151	45	43	3	2,555
	ASHLAND HARBOR, WIS.												
TOTAL, 22 AND LESS		43					43	45					45
	BAYFIELD HARBOR, WIS.												
TOTAL, 10 AND LESS		5,340					5,340	5,355					5,355
	BEAVER BAY HARBOR, WINN.												
TOTAL, 5 AND LESS		198					198	198					198
	CHIPPENNA HARBOR (ISLE ROYALE), MICH.												
	NO VESSEL TRIPS REPORTED												
	CORNUCOPIA HARBOR, WIS.												
TOTAL, 6 AND LESS		159					159	157					157
	GRAND MARAIS HARBOR, MINN.												
TOTAL, 5 AND LESS		66					66	66					66
	KNIFE RIVER HARBOR, MINN.												
TOTAL, 5 AND LESS		66					66	66					66
	LA POINTE HARBOR, WIS.												
TOTAL, 6 AND LESS		4,595					4,595	4,593					4,593
	LUTSEN HARBOR, MINN.												
	NO VESSEL TRIPS REPORTED												
	PORT WING HARBOR, WIS.												
TOTAL, 5 AND LESS		282					282	282					282
	WARRIOR HARBOR, MINN.												
	NO VESSEL TRIPS REPORTED												
	SILVER BAY, MINN.												
TOTAL, 28 AND LESS		196		1	1		198	199		1		1	201
	TACONITE HARBOR, MINN.												
TOTAL, 28 AND LESS		137		1	1	2	141	137		2		2	142

Waterborne Commerce of the United States, 1986

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CHICAGO, IL, DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION			
DRAFT (FEET)	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	
		PASSENGER AND DRY CARGO	TANKER			DRY CARGO	TANKER		
WAUKEGAN HARBOR, ILL.				INBOUND				OUTBOUND	
22	13				13				
21	7				7				
20	10				10	2			2
19	3				3				
18	9				9	6			6
17	4				4	8			8
16	5				5	3			3
15	1				1				
14						3			3
13						8			8
12 AND LESS						7	23		31
TOTAL	52		3	4	59	53		3	5
									61
CHICAGO RIVER (MAIN AND NORTH BRANCH), ILL.				UPBOUND				DOWNBOUND	
21				2		28			28
20						1			1
19						1			1
18						20	1		1
17						11			
16						2			
14						2			
13						4			
12 AND LESS						142	1	516	1,065
TOTAL	172		4	518	1,066	202	1,962	172	1,961
CHICAGO RIVER, SOUTH BRANCH, ILL.				UPBOUND				DOWNBOUND	
TOTAL, 12 AND LESS	30		4	526	1,549	201	2,309	30	2,304
CHICAGO SANITARY AND SHIP CANAL, ILL.				UPBOUND				DOWNBOUND	
TOTAL, 12 AND LESS	32		4	2,456	7,893	2,506	12,891	32	12,898
CALUMET-SAG CHANNEL, ILL.				UPBOUND				DOWNBOUND	
9				298	1,052	379	2,331	3	2,332
8				198	128	123	649	198	649
7				161	21	5	187	161	187
6				1	12	20	42	12	42
5					1	8	2	1	10
4						6	11		11
3						1	38		38
2						312	429	781	840
1						8	12	20	429
TOTAL	3			670	2,156	1,002	3,831	3	3,832
LAKE CALUMET, ILL.				INBOUND				OUTBOUND	
27		2				4			
26		2				2			
25		3				3			
24		1				3			
23						4			
22						23			
21		2				5	1		
20						5	7	2	2
19		3	2			3	2		9
18		2	1			3	3		3
17		3	1			1	3		6
16		2		8		8	3		8
15		2		11		3	13	8	21
14		1		2		3	11	1	10
13				90	276	226	592	1	1
TOTAL	47	12	111	277	237	684	47	13	243
									693
CALUMET HARBOR AND RIVER, ILL. AND INO.				EASTBOUND				WESTBOUND	
29						1			
28						2			
27						7	25		26
26		2				29	35		37
25		3	2			5	21		25
24		9	2			11	18		29
23						19	31		33
22						31	64		66
21						56	40		49
20				113	7	16	121	36	42
19					1		36	2	22
18						36	20		26
17						37	2		22
16						51	15	25	45
15						37	4	27	52
14						37	2	22	29
13						53	6	2	6
12 AND LESS						152		808	3,503
TOTAL	111	1	791	2,180	390	3,473	152	808	3,503
	516	35	874	2,200	395	4,020	516	884	4,020

CHICAGO, IL, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

Waterborne Commerce of the United States, 1986

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION			
DRAFT (FEET)	SELF PROPELLED VESSELS	NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON-SELF PROPELLED VESSELS		TOTAL
		PASSENGER AND DRY CARGO	TANKER		DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	
GARY HARBOR, IND. TOTAL, 29 AND LESS - - - - -	78	17	94	1	190	80	17	88	186

DETROIT, MI, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY			DIRECTION				DIRECTION			
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	
PRESQUE ISLE HARBOR, MICH.						INBOUND				OUTBOUND
30							1			1
29							55			20
28							17			3
27							3			1
26							1			1
25							3			3
24							17			17
23							33			35
22							2			17
21							16			5
20							5			1
19							1			1
18							4			2
17							2			2
16							15			2
15							14			2
14							7			2
13							2			2
12 AND LESS							5			2
							2			2
TOTAL	161	8	4			169	159	4	4	167
MARQUETTE HARBOR, MICH.						INBOUND				OUTBOUND
26							1			1
24							5			5
23							3			3
22							7			3
21							1			3
20							3			4
19							4			4
18							2			2
17							1			1
16							2			2
15							2			2
14							1			1
13							1			1
12 AND LESS	101					101	101			101
TOTAL	115					115	117			117
ONTONAGON HARBOR, MICH.						INBOUND				OUTBOUND
18							18	10		10
17							2			2
16							3			4
15							1			3
14							2			2
13							1			1
12 AND LESS	18	2	1			21	17	1	1	19
ST. MARYS RIVER, MICH.						UPBOUND				DOWNBOUND
32							10			10
29							142			195
28							54	345		356
27							20	112		218
26							32	62		66
25							8	17		17
24							52	19		26
23							184	25		25
22							181	10		13
21							54	14		15
20							106	18		17
19							34	3		3
18							101	11		11
17							60	19		22
16							38	1		32
15							8			6
14							2	1		5
13							1	1		1
12 AND LESS	28,364	20	22	4		28,410	28,361	22	25	28,412
TOTAL	29,208	67	45	25		29,345	29,207	69	48	29,347
ST. MARYS FALLS CANAL, MICHIGAN AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CANADA						EASTBOUND				WESTBOUND
28						22	579	38		58
27							91	21		28
26							50	25		52
25							7	5		6
24							26	42		49
23							23	159		178
22							11	159		162
21							12	39		99
20							13	97		21
19							1	21		21
18							2	100		100
17							17	56		56
16							5	12		17
15							2	4		6
14							3			2
13							1			1
12 AND LESS	3	2	7	2		14	17	3	5	27
TOTAL	792	30	30	5		857	791	32	28	856

Waterborne Commerce of the United States. 1986

TRIPS AND DRAFTS OF VESSELS

DETROIT, MI, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION			
DRAFT (FEET)	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS	NON SELF PROPELLED VESSELS		TOTAL	
		PASSENGER AND DRY CARGO	TANKER			DRY CARGO	TANKER		
MUSKEGON HARBOR, MICH.--(CONTINUED)					INBOUND			OUTBOUND	
17				2					
16			25			25		2	
15			8			8		36	
14			1			1		14	
13								6	
12 AND LESS								1	
TOTAL	85	3	56	213		86	3	214	
GRAND HAVEN HARBOR AND GRAND RIVER, MICH.					INBOUND			OUTBOUND	
24									
23								50	
22			36			36		53	
21			14	3		17	3	3	
20			10			10	3	4	
19			9			9	18	20	
18			3			3	1	1	
17			1			2	11	11	
16			2	1		4	3	4	
15			7			8	4	5	
14			1			3	4	8	
13			2	1		3	8	9	
12 AND LESS								10	
TOTAL	87	5	6	108		138	5	158	
HOLLAND HARBOR, MICH.					INBOUND			OUTBOUND	
23									
22			6			6	2	2	
21			8			8	4	5	
20			11			12	2	2	
19			5			5	12	12	
18			1			1	3	3	
17			1			1	6	6	
16						1	1	1	
15						2	1	1	
14						1	1	3	
13						1	1	1	
9						1	1	1	
TOTAL	33	4	1	38		33	3	37	
ST. JOSEPH HARBOR, MICH.					INBOUND			OUTBOUND	
23									
22			2			2			
21			37			37	1	1	
20			12			12	2	2	
19			3			3	4	4	
18			1			1	3	3	
17						1	11	11	
16						8	8	8	
15						6	6	7	
14						1	1	1	
13						1	1	2	
12 AND LESS						10	6	10	
						28	31	65	
TOTAL	55	30	32	117		54	30	116	
WISCONSIN HARBOR, WIS.					INBOUND			OUTBOUND	
26									
27			5			5			
26			6			6	11	11	
25			7			8	9	9	
24			11	1		12	9	9	
23						7	18	18	
22			11			11	9	9	
21			19			23	7	7	
20			56			57	12	10	
19			25			25	7	7	
18			25	1		26	5	5	
17			15			15	3	4	
16			5			5	8	8	
15			8	2		13	5	9	
14			8	1		9	9	15	
13			1	4		5	25	31	
12 AND LESS			542	45	9	660	69	69	
TOTAL	751	18	53	887		753	18	887	
PORT WASHINGTON HARBOR, WIS.					INBOUND			OUTBOUND	
21									
20			15			15	13	13	
19			1			1	2	2	
18						1	1	1	
TOTAL	16			16		16		16	

Waterborne Commerce of the United States, 1986

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION					DIRECTION				
		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	
SHEBOYGAN HARBOR, WIS.						INBOUND					OUTBOUND
20						29	66				66
19							6				6
18							1				1
16							2				2
15							4				4
14							1				1
13							40				40
12 AND LESS							2				2
							4				8
TOTAL		74	4		2	80	75			2	83
KEWANEE HARBOR, WIS.						INBOUND					OUTBOUND
19						287	314				314
18							88	88			88
14							1				1
12 AND LESS							30				3
							406	402			406
TOTAL		403	1	2		406	402			3	406
GREEN BAY HARBOR, WIS.						INBOUND					OUTBOUND
26						5	5				5
25							13	2			2
24							11	4			5
23							11	4			6
22							52	5			6
21							42	8			9
20							31	25			25
19							12	10			10
18							9	35			36
17							6	21			21
16							8	17			20
15							1	1			1
14							12	1			16
13							1	12			13
12 AND LESS							258	272			280
							1	1			6
TOTAL		427	10	19	14	7	477	425	9	21	477
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WIS.						NORTHBOUND					SOUTHBOUND
23						6	2				7
22							2	1			1
21							9	8			8
20							5	3			3
19							2	1			1
18							1	1			1
17							1	1			1
16							2	1			2
15							8	2			3
14							4	1			8
13							10	2			3
12 AND LESS							2	2			3
							231	209		5	230
TOTAL		211	5	13	2	6	287	233		21	273
ALPENA HARBOR, MICH.						INBOUND					OUTBOUND
22						13	3	16	175		175
21							4	8	38	1	39
20							4	8	8		8
19							4	5	5		5
18								18			18
17							71	2	6		8
16							5	2	2		2
15							2	1	1		8
14							14	16	52	2	52
13							60	1	1		2
12 AND LESS							77	65	1		6
							6	83			6
TOTAL		250	8	3	9	6	270	254		8	273
SAGINAW RIVER, MICH.						INBOUND					OUTBOUND
25						45	2	2	3		5
24						70	3	4			4
23						52	2		58		20
22						37	1		38	13	20
21						15	2		16	7	16
20						15	1		16	1	60
19						8	2		10	18	23
18						8			11	5	27
17						2	1		3	23	24
16						3			3	34	39
15						5			5	5	13
14						1	1		4	4	5
13						1	2		2	16	17
12 AND LESS						1	7	1	10	13	21
							20	19	13	1	8
TOTAL		252	20	10	2	8	292	253	19	13	294

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TRIPS AND DRAFTS OF VESSELS

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
DRAFT (FEET)		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	
CHANNELS IN LAKE ST. CLAIR--(CONTINUED)													
15	-	43		32	5					80			
14	-	31		10	1					42			
13	-	4		2	5					16			
12 AND LESS	-	44	15	4	4	63				130			
TOTAL	-	1,031		92	23	75				1,237			
DETROIT RIVER, MICH.													
29	-												
28	-	36								36			
27	-	11		9						20			
26	-	5		1						6			
25	-	12			1					13			
24	-	38		1	1					40			
23	-	174			1					183			
22	-	229	1		9					77			
21	-	161			7	1				230			
20	-	160			5					70			
19	-	61								64			
18	-	82								66			
17	-	102								61			
16	-	15		47						18			
15	-	55		44	2					13			
14	-	518		10						89			
13	-	5		4						80			
12 AND LESS	-	1,259	22	6	156	90				16			
TOTAL	-	2,926		122	176	101				1,533			
DETROIT HARBOR, MICH.													
29	-									6			
28	-	25								25			
27	-	11	1							21			
26	-	54	1							12			
25	-	20	1							14			
24	-	25	4							2			
23	-	17								21			
22	-	52								6			
21	-	58			3					1			
20	-	31	2							29			
19	-	14	1							16			
18	-	9	1							31			
17	-	6	1	3						31			
16	-	9	2	3	2	1				35			
15	-	13		5	1					59			
14	-	507								19			
13	-	4		2						2			
12 AND LESS	-	1,263	1	327	317	6				507			
TOTAL	-	2,124		340	323	10				1,914			
ROUGE RIVER, MICH.													
25	-									6			
24	-	189								25			
23	-	14								21			
22	-	37	1							12			
21	-	52			1					14			
20	-	43			5					2			
19	-	41	2							21			
18	-	5								50			
17	-	2	1	1						14			
16	-	6		32						6			
15	-	2		30						47			
14	-	1		5						59			
13	-	2		3						48			
12 AND LESS	-	1	9	211	321	50				40			
TOTAL	-	395	13	282	327	74				592			
ECORSE, MICH.													
20	-									189			
19	-	75								28			
18	-	22								14			
17	-	3								6			
16	-	6		2						17			
15	-			1						53			
14	-	1		1						48			
13	-			2						21			
12 AND LESS	-	4		3	1	2				50			
TOTAL	-	94		9	2	3				108			
TRENTON, MICH.													
28	-									75			
26	-	32								70			
25	-	4								2			
22	-	4								3			
21	-			1						8			
20	-									3			

DETROIT, MI, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION						
DRAFT (FEET)	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
RENTON, MICH.,--(CONTINUED)						INBOUND						OUTBOUND
19							3	3		4		
18							9	9		16		16
17							1			9		21
16				5			2	18		5		10
15				16			1			1		19
14				1			1	2		3		5
13				6			4	10		5		8
12 AND LESS	1,225					14	1,242	1,226		1		13
TOTAL	1,269		28		34	1,331	1,269		29		33	1,331
PORT OF DETROIT, MICH.						INBOUND						OUTBOUND
29	44						1	45				
28	61							61	22			
27	35	1	2					81	3	1		4
26	158	1						159	45	2		67
25	55	1						59	18	1		15
24	53	4						57	33	3		36
23	59	1						60	50	1		51
22	131							135	95	1		96
21	117							122	78	1		80
20	79	2						81	125	1		129
19	20	3						24	55	11		68
18	17	1						22	49	1		92
17	12	2	4					12	30	92	1	12
16	21	2	46		3			10	82	48		99
15	15		51		1			8	75	33		93
14	509		9		7			75	525	538	1	556
13	6		13		6			25	6	13	7	27
12 AND LESS	1,272	11	520	640	73	2,524	1,347	2	536	641	67	2,593
TOTAL	2,670	29	653	654	121	4,127	2,665	27	653	655	119	4,119
MONROE HARBOR, MICH.						INBOUND						OUTBOUND
21	35						3	38	11			11
20	5							5	9			9
19	3							3	6			6
18	1							2	3			3
17									9			9
16									5			5
15									3			7
14									3			6
13									1			1
12									2			3
11									1			1
10									2			2
9									1			
8									1			
7									1			
6									2			2
5									2			2
4									1			
3									1			
2									2			5
TOTAL	47		10	13		70	47		10	14	3	72
ALGOMA HARBOR, MICH.		NO VESSEL TRIPS REPORTED										
ALGONAC, MICH.		INBOUND										OUTBOUND
TOTAL, 9 AND LESS	8,914					8,914	8,914					8,914
AU SABLE HARBOR AND RIVER (OSCODA), MICH.		NO VESSEL TRIPS REPORTED										
BIG BAY HARBOR, MICH.		NO VESSEL TRIPS REPORTED										
BLACK RIVER HARBOR, MICH.		NO VESSEL TRIPS REPORTED										
CASEVILLE, MICH.		NO VESSEL TRIPS REPORTED										
CEDAR RIVER HARBOR, MICH.		NO VESSEL TRIPS REPORTED										
CHARLEVOIX HARBOR, MICH.		INBOUND										
TOTAL, 18 AND LESS	278		2	2		282	279		2			282
CHEBOYGAN HARBOR, MICH.		INBOUND										
TOTAL, 21 AND LESS	417	2	22	21		462	418	4	21			466
DETROUR, MICH., AND VICINITY		INBOUND										
TOTAL, 25 AND LESS	0,096		16	15		10,127	10,093		14			10,122

TRIPS AND DRAFTS OF VESSELS

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION							
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
ROGERS CITY, MICH.	NO VESSEL	TRIPS	REPORTED										
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MICH. TOTAL, 8 AND LESS - - - - -	360					INBOUND	360	360				OUTBOUND	360
SAULT STE. MARIE, MICH. TOTAL, 28 AND LESS - - - - -	16,018	1	53	16	21	16,105	16,013	1	60	22	23	16,119	
SEBEWAING, MICH.	NO VESSEL	TRIPS	REPORTED										
SOUTH HAVEN HARBOR, MICH.	NO VESSEL	TRIPS	REPORTED										
ST. JAMES (BEAVER ISLAND), MICH. TOTAL, 8 AND LESS - - - - -	273					INBOUND	273	273				OUTBOUND	273
TWO RIVERS HARBOR, MICH. TOTAL, 9 AND LESS - - - - -			3		2	5			3		2	5	
WHITE LAKE HARBOR, MICH.	NO VESSEL	TRIPS	REPORTED										
WHITEFISH POINT HARBOR, MICH.	NO VESSEL	TRIPS	REPORTED										
WYANDOTTE, MICH. TOTAL, 23 AND LESS - - - - -	11					INBOUND	11	10				OUTBOUND	10
ALABASTER, MICH. TOTAL, 22 AND LESS - - - - -	55					INBOUND	55	55				OUTBOUND	55
CALCITE, MICH. TOTAL, 29 AND LESS - - - - -	365		3	3		INBOUND	371	368		3		OUTBOUND	374
ESCANABA, MICH. TOTAL, 30 AND LESS - - - - -	238	6	23	6	14	INBOUND	247	236	5	22	6	OUTBOUND	288
MARBLEHEAD, OHIO TOTAL, 24 AND LESS - - - - -	3,513			1		INBOUND	3,514	3,514			1	OUTBOUND	3,515
PORT DOLOMITE, MICH. TOTAL, 28 AND LESS - - - - -	110		25	42		INBOUND	177	109		25	42	OUTBOUND	176
PORT GYPSUM, MICH. TOTAL, 23 AND LESS - - - - -	25		1	1		INBOUND	27	25		1	1	OUTBOUND	27
PORT INLAND, MICH. TOTAL, 26 AND LESS - - - - -	128		16	34		INBOUND	178	128		16	36	OUTBOUND	180
STONEPORT, MICH. TOTAL, 27 AND LESS - - - - -	305		1	1		INBOUND	307	303		1	1	OUTBOUND	305

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION					
DRAFT (FEET)	HARBOR OR WATERWAY	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
TOLEDO HARBOR, OHIO													
26		42											
27		30	5	4			42	8					8
26		56	2				49	132	1	4			137
25		60	1				58	59	1				60
24		77					61	51	2				54
23		119	1		6		77	97	1				99
22		63					124	121	3				126
21		46			1		63	137	3				140
20		102					87	117					117
19		61	1				102	93	3				96
18		94	1				62	47	1				48
17		80	2				95	18					18
16		50		18			82	31	2				34
15		18		3			68	7	1	18		1	27
14		18		3			77	5		3		2	10
13		7		1			21	13		2		3	18
12 AND LESS		1,480	10	519	515	28	2,552	1,460	9	519	518	28	2,530
TOTAL		2,399	23	548	520	28	3,518	2,397	27	547	525	28	3,528
SANDUSKY HARBOR, OHIO													
26		3											
25		12						3	100				100
24		15						12	1				1
23		45						15	1				13
22		33						45	13				21
21		15						33	21				15
20		9						19	15				12
19		2						9	12				5
18		10						2	5				3
17		23						10	3				1
16		6						23	1				9
15		1						6	6				2
14								4					1
13								1	1				1
12 AND LESS		2,554			5		2,559	2,548					2,552
TOTAL		2,728		4	9		2,741	2,727		2	7		2,736
HURON HARBOR, OHIO													
22		10											
20		1						10	4				4
19								1	5				5
18								1	1				1
16								1					1
14								1					1
12 AND LESS		1						1	1				1
TOTAL		18						14	13				13
LORAIN HARBOR, OHIO													
29		20											
28		71											
27		40											
26		17		1									
25		2											
24		3											
23		21											
22		1											
21		3											
20		19											
19		8											
18		37											
17		114											
16													
15													
14													
12 AND LESS		172		1	1			172	165				165
TOTAL		529		1	1			531	533				536
CLEVELAND HARBOR, OHIO													
29		14											
28		12											
27		22											
26		253	1										
25		120											
24		79											
23		47											
22		46	2										
21		29	3										
20		21	1										
19		12	7										
18		15											
17		39											
16		6		19	1								
15		1		13	6								
14				7	2								
13				1	1								
12 AND LESS		2		5	3	34		485	440	11	6	43	512
TOTAL		1,152	16	44	12	55	1,279	1,152	19	52	12	46	1,281

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION			
DRAFT (FEET)	HARBOR OR WATERWAY	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	DIRECTION			TOTAL
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	
FAIRPORT HARBOR, OHIO							INBOUND				OUTBOUND
27	-	24					24	10			10
26	-	16					16	14			14
25	-	20					20	3			3
24	-	7					7	2			2
23	-	23					23	13			13
22	-	10			1		11	6			6
21	-	3					3	11			11
20	-	5					5	13			13
19	-	1					1	7			7
18	-	4					4	11			11
17	-	5					5	6			6
16	-							6			6
15	-	1					5	13			13
14	-						4				5
12 AND LESS	-	216		4			216	218		5	218
TOTAL	-	335		4	5		344	333	5	5	343
ASHTABULA HARBOR, OHIO							INBOUND				OUTBOUND
29	-	26					31	48			48
28	-	21					24	8			8
27	-	19		7			26	20		7	27
26	-	11					11	6			6
25	-	26					26	8			8
24	-	46		1			47	10		1	11
23	-	30					30	29			37
22	-	8					8	34			34
21	-	11					14	20			20
20	-	12					12	16			16
19	-	4					4	14			14
18	-	20					20	20			20
17	-	12					12	5			5
16	-	6					6	4			4
15	-						3	1			3
14	-							2			2
13	-										1
12 AND LESS	-										2
TOTAL	-	252		11	11		274	246	11	11	268
CONNEAUT HARBOR, OHIO							INBOUND				OUTBOUND
27	-	15		1			18	153		1	154
26	-	14					14	10			10
25	-	22					22	8			8
24	-	101		1			102	16		1	17
23	-	36					36	12			16
22	-	13					13	35			35
21	-	16					16	21			21
20	-	19					19	11			11
19	-	10					10	2			2
18	-	13					13	14			14
17	-	7					7	3			3
16	-	6					6				6
15	-	1					1				1
TOTAL	-	273		2	2		277	281	2	2	288
ERIE HARBOR, PA.							INBOUND				OUTBOUND
27	-	3		1			4	4		1	5
26	-	7					7	3			4
25	-	2					2	2			2
24	-	5		1			6	5			5
23	-	8					10	2			4
22	-	14					14	4			4
21	-	9					9	8			6
20	-	3					3	1			1
19	-	4					4	6			6
18	-	3					3	4			4
17	-	3					3	5			5
16	-	1					1	1			1
15	-							19			19
14	-	90					90	90			90
13	-	23					23	24			26
12 AND LESS	-	537		3			540	540	2		542
TOTAL	-	712		5	2		719	714	4	2	720
BUFFALO HARBOR, N. Y.							INBOUND				OUTBOUND
26	-	2					2				1
27	-	7					7	1			1
26	-	4					4	5			6
25	-	5		1			6	5			6
24	-	13					13	1			1
23	-	24					24	1			1
22	-	17		1			16	1			1
21	-	11		1			13	6			6
20	-	9					10	2			3
19	-	2					2	7			7
18	-						9	28			29
17	-	6					18	1			29

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION				DIRECTION							
DRAFT (FEET)		SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS		NON SELF PROPELLED VESSELS		TOTAL		
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO			
BUFFALO HARBOR, N. Y.--(CONTINUED)													
16		8		2									
15		1		11		1		13					
14				1				1					
13				2				2					
12 AND LESS		5	4	3	3	1		16	6	7			
TOTAL		121	8	19	4	16	104	14	25	6	19	168	
PORT OF BUFFALO, N. Y.													
28		2											
27		7						7					
26		4						4					
25		5	1					6	5	1			
24		13						15	1				
23		24						24	2				
22		17	11					28	1				
21		11	3		1			15	6	1			
20		9	3					12	1	3			
19		1	9					8					
18		6			2			11	29				
17		3			5			12	31	1			
16		4	10		1	8		15	11	5			
15		1	19			1		21	5	19			
14			1					1	1	5			
13			5					5	1	2			
12 AND LESS		8	5	5	4	6	28	6	21	4	32		
TOTAL		115	32	40	6	34	227	113	33	40	7	34	227
OSWEGO HARBOR, N. Y.													
25		2	1					3					
24		2						2					
23		2						2					
22		12	2					16					
21		5	12					17					
20		22	13					35	21	2			
19		31	8					39	31	13			
18		20	2					22	38	10			
17		3						3	8	6			
16		3						3	5				
15		1						1	1	1			
13					1			1		2			
12 AND LESS		96	3	3	41		143	95		3	2	39	139
TOTAL		200	38	4	4	41	287	199	37	5	3	39	283
BARCELONA HARBOR, N. Y.		NO VESSEL TRIPS REPORTED											
CAPE VINCENT, N. Y.													
TOTAL, 6 AND LESS		2,421					2,421	2,421				2,421	
DUNKIRK HARBOR, N. Y.		NO VESSEL TRIPS REPORTED											
GREAT SODUS BAY HARBOR, N. Y.		NO VESSEL TRIPS REPORTED											
KELLEY'S ISLAND, OHIO													
TOTAL, 7 AND LESS		3,726					3,726	3,726				3,726	
NIAGARA FALLS, N. Y.													
TOTAL, 7 AND LESS		4	20					24	4	20			
NIAGARA RIVER, N. Y.													
TOTAL, 21 AND LESS		2	23	18				1	17	61	1	25	18
ODGDENSBURG HARBOR, N. Y.													
TOTAL, 19 AND LESS		10											
PORT CLINTON HARBOR, OHIO													
TOTAL, 10 AND LESS		2,010						2,010	2,011				
ROCHESTER (CHARLOTTE) HARBOR, N. Y.													
TOTAL, 19 AND LESS		57						57	57				
SACKETTS HARBOR, N. Y.		NO VESSEL TRIPS REPORTED											
TONAWANDA HARBOR, N. Y.		NO VESSEL TRIPS REPORTED											
VERMILION HARBOR, OHIO		NO VESSEL TRIPS REPORTED											

BUFFALO, NY, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

ROCK ISLAND, IL, DISTRICT

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TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY		DIRECTION						DIRECTION		DIRECTION					
DRAFT (FEET)	HARBOR OR WATERWAY	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL		
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER			
	ILLINOIS RIVER, ILL.				UPBOUND						DOWNBOUND				
9 -		1,691	7,021	2,083		10,795	3		1,654	9,414	970	12,041			
8 -		925	1,291	349		2,565			929	1,234	141	2,304			
7 -		521	67	33		671			525	100	13	638			
6 -		236	624	53		914			257	45	16	318			
5 -		30	76	4		110			39	16	4	59			
4 -		7	16	4		255	228		8	11	50	297			
3 -		1	4	19		23			1	18	115	134			
2 -		6,742	642			7,385			1	5,530	1,840	7,371			
1 -		686	26			712			8	160	116	276			
AND LESS- - - - -		10				10						8			
TOTAL- - - - -		229	3,421	16,527	3,213	23,390	231		3,422	16,528	3,265	23,446			

A	F
Alabaster, Mich.-----	50, 77
Algoma Harbor, Wis.-----	49, 75
Algonac, Mich.-----	49, 75
Alpena Harbor, Mich.-----	33, 72
Ashland Harbor, Wis.-----	5, 65
Ashtabula Harbor, Ohio-----	56, 79
Au Sable Harbor and River (Oscoda), Mich.-----	49, 75
B	G
Barcelona Harbor, N.Y.-----	60, 80
Bayfield Harbor, Wis.-----	5, 65
Beaver Bay Harbor, Minn.-----	5, 65
Big Bay Harbor, Mich.-----	49, 75
Black River Harbor, Mich.-----	49, 75
Buffalo, N.Y., Port of-----	58, 80
Buffalo Harbor, N.Y.-----	57, 79
Niagara River, N.Y.-----	60, 80
Tonawanda Harbor, N.Y.-----	60, 81
Buffington Harbor, Ind.-----	21, 67
Burns Waterway Harbor, Ind.-----	19, 67
C	H
Calcite, Mich.-----	50, 77
Calumet Harbor and River, Ill. and Ind.-----	11, 66
Calumet-Sag Channel, Ill.-----	9, 66
Cape Vincent Harbor, N.Y.-----	60, 80
Caseville, Mich.-----	49, 75
Cedar River Harbor, Mich.-----	49, 75
Channels in Lake St. Clair, Mich.-----	38, 73
Charlevoix Harbor, Mich.-----	49, 75
Cheboygan Harbor, Mich.-----	49, 75
Chicago Area, Summary of Traffic-----	16
Chicago Harbor, Ill.-----	21, 67
Chicago, Ill., Port of-----	14
Calumet Harbor and River, Ill. and Ind.-----	11, 66
Calumet-Sag Channel, Ill.-----	9, 66
Chicago Harbor, Ill.-----	21, 68
Chicago River (Main and North Branch), Ill.-----	6, 66
Chicago River (South Branch), Ill.-----	7, 66
Chicago Sanitary and Ship Canal, Ill.-----	8, 66
Lake Calumet, Ill.-----	10, 66
Chicago River (Main and North Branch), Ill.-----	6, 66
Chicago River (South Branch), Ill.-----	7, 66
Chicago Sanitary and Ship Canal, Ill.-----	8, 66
Chippewa Harbor (Isle Royale), Mich.-----	5, 65
Cleveland Harbor, Ohio-----	54, 78
Commodity Classification-----	IX
D	I
Fairport Harbor, Ohio-----	55, 79
Frankfort Harbor, Mich.-----	49, 76
Freight Tons Carried on Great Lakes by Areas-----	XIII
E	J
Gary Harbor, Ind.-----	21, 68
Gladstone Harbor, Mich.-----	49, 76
Grand Haven Harbor and Grand River, Mich.-----	28, 71
Grand Marais Harbor (Harbor of Refuge), Mich.-----	49, 76
Grand Marais Harbor, Minn.-----	5, 65
Grand Traverse Bay Harbor-----	49, 76
Grays Reef Passage, Mich.-----	26, 70
Great Sodus Bay Harbor, N.Y.-----	60, 80
Green Bay Harbor, Wis.-----	32, 72
F	K
Harbor Beach (Harbor of Refuge), Mich.-----	49, 76
Harrisville Harbor, Mich.-----	49, 76
Holland Harbor, Mich.-----	29, 71
Huron Harbor, Ohio-----	53, 78
G	L
Illinois River, Ill.-----	61, 82
Illinois Waterway, Ill. (Consolidated- entire Waterway)-----	16
Calumet-Sag Channel, Ill.-----	9, 66
Chicago River (South Branch), Ill.-----	7, 66
Chicago Sanitary and Ship Canal, Ill.-----	8, 66
Illinois River, Ill.-----	61, 82
Indiana Harbor, Ind.-----	18, 67
Introduction-----	VII
H	M
Kelleys Island, Ohio-----	60, 80
Kenosha Harbor, Wis.-----	49, 76
Keweenaw Waterway, Mich.-----	32, 72
Knife River Harbor, Minn.-----	49, 76
La Pointe Harbor, Wis.-----	5, 65
I	N
Lac La Belle Harbor, Mich.-----	49, 76
Lake Calumet, Ill.-----	10, 66
Lake St. Clair, Channels in, Mich.-----	38, 73
La Pointe Harbor, Wis.-----	5, 65

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N

New Buffalo Harbor, Mich. -----	50, 76
Niagara Falls, N. Y. -----	60, 80
Niagara River, N. Y. -----	60, 80

O

Oconto Harbor, Wis. -----	50, 76
Ogdensburg Harbor, N. Y. -----	60, 80
Ontonagon Harbor, Mich. -----	22, 69
Oswego Harbor, N. Y. -----	58, 80

P

Pensaukee Harbor, Wis. -----	50, 76
Pentwater Harbor, Mich. -----	50, 76
Port Clinton Harbor, Ohio -----	60, 80
Port Dolomite, Mich. -----	51, 77
Port Gypsum, Mich. -----	51, 77
Port Huron, Mich. -----	37, 73
Port Inland, Mich. -----	51, 77
Port of Buffalo, N. Y. -----	58, 80
Port of Chicago, Ill. -----	14
Port of Detroit, Mich. -----	46, 75
Port Sanilac Harbor, Mich. -----	50, 76
Port Washington Harbor, Wis. -----	31, 71
Port Wing Harbor, Wis. -----	5, 65
Presque Isle Harbor, Mich. -----	22, 69
Put-in-Bay Harbor, Ohio -----	50, 76

R

Racine Harbor, Wis. -----	50, 76
Rochester (Charlottesville) Harbor, N. Y. -----	60, 80
Rogers City, Mich. -----	50, 77
Rouge River, Mich. -----	44, 74

S

Sackets Harbor, N. Y. -----	60, 80
Saginaw River, Mich. -----	34, 72
St. Clair, Mich. -----	37, 73
St. Clair River, Mich. -----	34, 73
St. James (Reefer Island), Mich. -----	50, 77
St. Joseph Harbor, Mich. -----	29, 71
St. Marys Fall Canal, Mich. and Ont. -----	24, 69
St. Marys River, Mich. -----	23, 69
Sandusky Harbor, Ohio -----	53, 78

S

Saugatuck Harbor and Kalamazoo River, Mich. -----	50, 77
Sault Ste. Marie, Mich. -----	50, 77
Sebewaing Mich. -----	50, 77
Sheboygan Harbor, Wis. -----	31, 72
Silver Bay, Minn. -----	5, 65
South Haven Harbor, Mich. -----	50, 77
Stoneport, Mich. -----	51, 77
Sturgeon Bay and Lake Michigan Ship Canal, Wis. -----	33, 72

Summary of Great Lakes Traffic

Freight Tons by Area -----	XIII
Freight Tons by Commodity -----	XIV
Ton-Miles by Area -----	XII

T

Taconite Harbor, Minn. -----	5, 65
Toledo Harbor, Ohio -----	52, 78
Tonawanda Harbor, N. Y. -----	60, 80
Ton Mileage of Freight Carried on Great Lakes -----	XII
Traverse City Harbor, Mich. -----	27, 70
Trenton, Mich. -----	46, 74
Two Harbors (Agate Bay), Minn. -----	3, 65
Two Rivers Harbor, Wis. -----	50, 77

V

Vermilion Harbor, Ohio -----	60, 80
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W

Waddington Harbor, N. Y. -----	60, 81
Warroad Harbor, Minn. -----	5, 65
Waukegan Harbor, Ill. -----	6, 66
White Lake Harbor, Mich. -----	50, 77
Whitefish Point Harbor, Mich. -----	50, 77
Wyandotte, Mich. -----	50, 77